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- CHEN, P.J., see BOWEN, R.M. **51**, 278 (1973)
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CHEN, P.J., M.F. McCARTHY, & T.R. O'LEARY, One-Dimensional Shock and Acceleration Waves in Deformable Dielectric Materials with Memory **62**, 189 (1976)
CHEN, P.J., & M.F. McCARTHY, The Electrical Responses of a Dynamically Loaded Deformable Dielectric Material with Memory **62**, 353 (1976)
CHENCINER, A., & G. IOSS, Bifurcations de tores invariants **69**, 109 (1979)
CHENCINER, A., & G. IOSS, Persistance et Bifurcation de Tores Invariants **71**, 301 (1979)
CHEVERTON, K.J., & M.F. BEATTY, On the Mathematical Theory of the Mechanical Behavior of Some Non-Simple Materials **60**, 1 (1975)
CHILLINGWORTH, D.R.J., J.E. MARSDEN, & Y.H. WAN, Symmetry and Bifurcation in Three-Dimensional Elasticity, Part I **80**, 295 (1982)
CHILLINGWORTH, D.R.J., J.E. MARSDEN, & Y.H. WAN, Symmetry and Bifurcation in Three-Dimensional Elasticity. Part II **83**, 363 (1983)
CHING SHI LIU, & CHUN HIAN LEE, On the Solution of the Prandtl Boundary Layer Equations Containing the Point of Zero Skin Friction **79**, 291 (1982)
CHIPOT, M., On the Equations of Age-Dependent Population Dynamics **82**, 13 (1983)
CHIPOT, M., D. KINDERLEHRER, & G. VERGARA CAFFARELLI, Smoothness of Linear Laminates **96**, 81 (1986)
CHOSSAT, P., Y. DEMAY, & G. IOSS, Interaction de modes azimutaux dans le problème de Couette-Taylor **99**, 213 (1987)
CHOU, S.-I., & C.-C. WANG, Error Estimates of Finite Element Approximations for Problems in Linear Elasticity. Part 1. Problems in Elastostatics **72**, 41 (1979)
CHOU, S.-I., & C.-C. WANG, Error Estimates in Finite Element Approximations for Problems in Linear Elasticity. Part 2. Problems in Elastodynamics; Continuous Time Approximations **72**, 155 (1979)
CHOU, S.-I., & C.-C. WANG, Error Estimates of Finite Element Approximations for Problems in Linear Elasticity, Part 3. Problems in Elastodynamics, Discrete Time Approximations **73**, 159 (1980)
CHOU, S.-I., & C.-C. WANG, Estimates of Error in Finite Element Approximate Solutions to Problems in Linear Thermoelasticity **77**, 263 (1981)
CHOU, S.-I., & C.-C. WANG, Estimates of Error in Finite Element Approximate Solutions to Problems in Linear Thermoelasticity Part. 2. Computationally Uncoupled Numerical Schemes **85**, 27 (1984)
CHOW, S.-N., J.K. HALE, & J. MALLET-PARET, Applications of Generic Bifurcation. I **59**, 159 (1975)
CHOW, S.-N., J.K. HALE, & J. MALLET-PARET, Applications of Generic Bifurcation. II **62**, 209 (1976)
CHRISTIANSEN, E., On the Collapse Solution in Limit Analysis **91**, 119 (1986)
CHUN HIAN LEE, see CHING SHI LIU **79**, 291 (1982)
CHURCHILL, R.C., G. PECELLI, & D.L. ROD, Stability Transitions for Periodic Orbits in Hamiltonian Systems **73**, 313 (1980)
CIARLET, P.G., A Justification of the von Kármán Equations **73**, 349 (1980)
CIARLET, P.G., & J. NEČAS, Unilateral Problems in Nonlinear, Three-Dimensional Elasticity **87**, 319 (1985)
CIARLET, P.G., & J. NEČAS, Injectivity and Self-Contact in Nonlinear Elasticity **97**, 171 (1987)
CIAVALDINI, J.F., M. POGU, & G. TOURNEMINE, Existence and Regularity of Stream Functions for Subsonic Flows Past Profiles with a Sharp Trailing Edge **93**, 1 (1986)

- CLARKE, F.H., & I. EKELAND, Nonlinear Oscillations and Boundary Value Problems for Hamiltonian Systems **78**, 315 (1982)
- COCKER, A.D., A. FRIEDMAN, & B. MCLEOD, A Variational Inequality associated with Liquid on a Soap Film **93**, 15 (1986)
- COFFMAN, C.V., & M. MARCUS, Superlinear Elliptic Dirichlet Problems in Almost Spherically Symmetric Exterior Domains **96**, 167 (1986)
- COHEN, A., Existence and Regularity for Solutions of the Kortewegde Vries Equation **71**, 143 (1979)
- COHEN, H., Decay of Acceleration Waves in Elastic Rods **67**, 151 (1978)
- COHEN, H., see MURDOCH, A.I. **72**, 61 (1979)
- COHEN, H., & M. EPSTEIN, Acceleration Waves in Constrained Elastic Rods **72**, 141 (1979)
- COHEN, H., see MURDOCH, A.I. **76**, 393 (1981)
- COHEN, H., & C.-C. WANG, On Compatibility Conditions for Singular Surfaces **80**, 205 (1982)
- COHEN, H., & C.-C. WANG, Principal Waves in Elastic Subfluids **83**, 139 (1983)
- COHEN, H., & C.-C. WANG, A Note on Hyperelasticity **85**, 213 (1984)
- COHEN, H., & C.-C. WANG, On the Response and Symmetry of Elastic and Hyperelastic Membrane Points **85**, 355 (1984)
- COHEN, H., & C.-C. WANG, Principal Waves in Orthotropic Elastic Membranes **89**, 283 (1985)
- COHEN, H., & C.-C. WANG, Acceleration Waves in Elastic Membranes **93**, 335 (1986)
- COHEN, H., & C.-C. WANG, On the Response and Symmetry of Elastic Materials with Internal Constraints **99**, 1 (1987)
- COLEMAN, B.D., & E.H. DILL, On Thermodynamics and the Stability of Motions of Materials with Memory **51**, 1 (1973)
- COLEMAN, B.D., & D.R. OWEN, A Mathematical Foundation for Thermodynamics **54**, 1 (1974)
- COLEMAN, B.D., & D.R. OWEN, On the Initial Value Problem for a Class of Functional-Differential Equations **55**, 275 (1974)
- COLEMAN, B.D., & D.R. OWEN, On Thermodynamics and Elastic-Plastic Materials **59**, 25 (1975)
- COLEMAN, B.D., & D.R. OWEN, Corrections to the paper "On Thermodynamics and Elastic-Plastic Materials." [Volume **59**, 25-51 (1975)] **62**, 391 (1976)
- COLEMAN, B.D., & D.R. OWEN, On the Thermodynamics of Semi-Systems with Restrictions on the Accessibility of States **66**, 173 (1978)
- COLEMAN, B.D., & D.R. OWEN, On the Thermodynamics of Elastic-Plastic Materials with Temperature-Dependent Moduli and Yield Stresses **70**, 339 (1979)
- COLEMAN, B.D., R.J. DUFFIN, & G. KNOWLES, Theory of Monotonic Transformations Applied to Optimal Design Problems **72**, 381 (1980)
- COLEMAN, B.D., D.R. OWEN, & J. SERRIN, The Second Law of Thermodynamics for Systems with Approximate Cycles **77**, 103 (1981)
- COLEMAN, B.D., M. FABRIZIO, & D.R. OWEN, On the Thermodynamics of Second Sound in Dielectric Crystals **80**, 135 (1982)
- COLEMAN, B.D., Necking and Drawing in Polymeric Fibers Under Tension **83**, 115 (1983)
- COLEMAN, B.D., & M.L. HODGDON, On Shear Bands in Ductile Materials **90**, 219 (1985)
- COLEMAN, B.D., W.J. HRUSA, & D.R. OWEN, Stability of Equilibrium for a Nonlinear Hyperbolic System Describing Heat Propagation by Second Sound in Solids **94**, 267 (1986)

- COLEMAN, B.D., & M.L. HODGDON, On a Class of Constitutive Relations for Ferromagnetic Hysteresis **99**, 375 (1987)
- CONLON, J.G., A Boundary Value Problem for the Three Dimensional Neutron Transport Equation **71**, 63 (1979)
- CONWAY, E.D., The Formation and Decay of Shocks for a Conservation Law in Several Dimensions **64**, 47 (1977)
- COOPER, J., Scattering of Plane Waves by a Moving Obstacle **71**, 113 (1979)
- CORON, J.M., see BREZIS, H. **89**, 21 (1985)
- COWIN, C., see NUNZIATO, J.W. **72**, 175 (1979)
- COWIN, S.C., & G.R. WEBB, Remarks on the Paper "Stability of Cosserat Fluid Motions" **52**, 118 (1973)
- CRAINE, R.E., see BEEVERS, C.E. **63**, 155 (1977)
- CRANDALL, M.G., & P.H. RABINOWITZ, Bifurcation, Perturbation of Simple Eigenvalues, and Linearized Stability **52**, 161 (1973)
- CRANDALL, M.G., & P.H. RABINOWITZ, Some Continuation and Variational Methods for Positive Solutions of Nonlinear Elliptic Eigenvalue Problems **58**, 207 (1975)
- CRANDALL, M.G., & P.H. RABINOWITZ, The Hopf Bifurcation Theorem in Infinite Dimensions **67**, 53 (1977)
- CROSS, J.J., see WANG, C.-C. **65**, 57 (1977)
- CROSS, J.J., see WANG, C.-C. **65**, 73 (1977)
- CURRIE, P.K., & F.M. LESLIE, Static Shear Layers in Nematic Liquid Crystals **87**, 35 (1984)

- DACOROGNA, B., A Relaxation Theorem and its Application to the Equilibrium of Gases **77**, 359 (1981)
- DAFERMOS, C.M., Solution of the Riemann Problem for a Class of Hyperbolic Systems of Conservation Laws by the Viscosity Method **52**, 1 (1973)
- DAFERMOS, C.M., Structure of Solutions of the Riemann Problem for Hyperbolic Systems of Conservation Laws **53**, 203 (1974)
- DAFERMOS, C.M., The Second Law of Thermodynamics and Stability **70**, 167 (1979)
- DAFERMOS, C.M., & W.J. HRUSA, Energy Methods for Quasilinear Hyperbolic Initial-Boundary Value Problems. Applications to Elastodynamics **87**, 267 (1985)
- DAFERMOS, C.M., Development of Singularities in the Motion of Materials with Fading Memory **91**, 193 (1986)
- DAFERMOS, C.M., Quasilinear Hyperbolic Systems with Involutions **94**, 373 (1986)
- DAHLBERG, B.E.J., Estimates of Harmonic Measure **65**, 275 (1977)
- DAL MASO, G., & U. MOSCO, Wiener Criteria and Energy Decay for Relaxed Dirichlet Problems **95**, 345 (1986)
- DANCER, E.N., Global Solution Branches for Positive Mappings **52**, 181 (1973)
- DANDAPAT, B.S., see RAJAGOPAL, K.R., & A.S. GUPTA **83**, 91 (1983)
- DANGELMAYER, G., & J. GUCKENHEIMER, On a Four Parameter Family of Planar Vector Fields **97**, 321 (1987)
- DASSIOS, G., & M. GRILLAKIS, Dissipation Rates and Partition of Energy in Thermoelasticity **87**, 49 (1984)
- DAVIES, E.B., Eigenfunction Expansions for Singular Schrodinger Operators **63**, 261 (1977)
- DAVINI, C., A Proposal for a Continuum Theory of Defective Crystals **96**, 295 (1986)
- DAVIS, P.W., see CHANDRA, J. **54**, 257 (1974)

- DAVIS, S.H., & C. VON KERCZEK, A Reformulation of Energy Stability Theory **52**, 112 (1973)
- DAY, W.A., The Effect of Surface Tension on the Motion of an Isolated Fluid Body **52**, 104 (1973)
- DAY, W.A., Continuum Thermodynamics Based on a Notion of Rate of Loss of Information **59**, 53 (1975)
- DAY, W.A., Entropy and Hidden Variables in Continuum Thermodynamics **62**, 367 (1976)
- DAY, W.A., New Estimates for Work in Linear Viscoelasticity **64**, 193 (1977)
- DAY, W.A., The Inaccessibility of the Past in Linear Viscoelasticity: An Information Theory Approach **64**, 205 (1977)
- DAY, W.A., An Information Theory Approach to the Symmetry, Monotonicity and Concavity of the Creep Function in Linear Viscoelasticity **65**, 47 (1977)
- DAY, W.A., & M. ŠILHÁVÝ, Efficiency and the Existence of Entropy in Classical Thermodynamics **66**, 73 (1978)
- DAY, W.A., L^p -Estimates for Static Stress Fields **69**, 99 (1979)
- DAY, W.A., Global Mean Value Theorems in Thermodynamics **70**, 181 (1979)
- DAY, W.A., The Stress in a Body under Variable Traction **72**, 15 (1979)
- DAY, W.A., Means and Autocorrelations in Elastodynamics **73**, 243 (1980)
- DAY, W.A., On the Growth of the Stress in a Cylinder **74**, 267 (1980)
- DAY, W.A., Synchronous Tensions which Produce Unbounded Kinetic Energy or Unbounded Stress **75**, 203 (1981)
- DAY, W.A., On the Quasi-static Approximation in Dynamic Linear Viscoelasticity **76**, 265 (1981)
- DAY, W.A., Generalized Torsion: The Solution of a Problem of Truesdell's **76**, 283 (1981)
- DAY, W.A., Some One-Dimensional Continuum Analogues of the Ergodic and Recurrence Theorems **77**, 23 (1981)
- DAY, W.A., Justification of the Uncoupled and Quasi-Static Approximations in a Problem of Dynamic Thermoelasticity **77**, 387 (1981)
- DAY, W.A., Further Justification of the Uncoupled and Quasi-Static Approximations in Thermoelasticity **79**, 85 (1982)
- DAY, W.A., A Property of the Heat Equation which Extends to the Thermoelastic Equations **83**, 99 (1983)
- DAY, W.A., Further Remarks on a Property of the Equations of Dynamic Thermoelasticity **84**, 69 (1983)
- DAY, W.A., On a Qualitative Effect Arising from Coupling in Dynamic Linear Thermoelasticity **84**, 83 (1983)
- DAY, W.A., A Comment on Approximations to the Temperature in Dynamic Linear Thermoelasticity **85**, 257 (1984)
- DAY, W.A., On the Failure of the Maximum Principle in Coupled Thermoelasticity **86**, 1 (1984)
- DAY, W.A., Initial Sensitivity to the Boundary in Coupled Thermoelasticity **87**, 253 (1985)
- DAY, W.A., Positive Temperatures and a Positive Kernel in Coupled Thermoelasticity **90**, 313 (1985)
- DAY, W.A., Strictly Decreasing Functions of Frequency occurring in a Theory of Heat Conduction which takes account of Thermomechanical Coupling **91**, 337 (1986)
- DAY, W.A., A Comparison Theorem for Moving Averages of Displacement in Coupled Thermoelasticity **91**, 351 (1986)

- DAY, W.A., Steady Forced Vibrations in Coupled Thermoelasticity **93**, 323 (1986)
DAY, W.A., Maximizing Thermodynamic Efficiency by Controlling Conditions at the Boundary **95**, 23 (1986)
DAY, W.A., A Comment on a Formulation of the Second Law of Thermodynamics **98**, 211 (1987)
DEL PIERO, G., On the Elastic-Plastic Material Element **59**, 111 (1975)
DELL'ANTONIO, G.F., & B. D'ONOFRIO, Construction of a Center-Unstable Manifold for C^1 -Flows and an Application to the Navier-Stokes Equation **93**, 185 (1986)
DEMAY, Y., see CHOSSAT, P., & G. IOoss **99**, 213 (1987)
DI BENEDETTO, E., see CANNON, J.R., & G.H. KNIGHTLY **73**, 79 (1980)
DI BENEDETTO, E., & R. GARIEPY, Local Behavior of Solutions of an Elliptic-Parabolic Equation **97**, 1 (1987)
DI BENEDETTO, E., Intrinsic Harnack Type Inequalities for Solutions of Certain Degenerate Parabolic Equations **100**, 129 (1988)
DIERKES, U., see BEMELMANS, J. **100**, 83 (1987)
DILL, E.H., see COLEMAN, B.D. **51**, 1 (1973)
DING, W.-Y., & W.-M. NI, On the Existence of Positive Entire Solutions of a Semilinear Elliptic Equation **91**, 283 (1986)
DI PASQUANTONIO, F., see KAPPEL, F. **58**, 317 (1975)
DI PERNA, R.J., Existence in the Large for Quasilinear Hyperbolic Conservation Laws **52**, 244 (1973)
DI PERNA, R.J., Singularities of Solutions of Nonlinear Hyperbolic Systems of Conservation Laws **60**, 75 (1975)
DI PERNA, R.J., Decay of Solutions of Hyperbolic Systems of Conservation Laws with a Convex Extension **64**, 1 (1977)
DI PERNA, R.J., Convergence of Approximate Solutions to Conservation Laws **82**, 27 (1983)
DI PERNA, R.J., Measure-Valued Solutions to Conservation Laws **88**, 223 (1985)
DIXIT, P.M., A. NARAIN, & D.D. JOSEPH, Free Surface Problem Induced by Motions Perturbing the Natural State of Simple Solids **77**, 199 (1981)
DIXON, W.G., Relativistic Foundations for Thermostatics **69**, 293 (1979)
DIXON, W.G., Thermodynamics of Superfluids via Relativity **80**, 159 (1982)
DJUKIC, D.S., Conservation Laws in Classical Mechanics for Quasi-Coordinates **56**, 79 (1974)
D'ONOFRIO, B., see DELL'ANTONIO, G.F. **93**, 185 (1986)
DREW, D.A., Two-phase Flows: Constitutive Equations for Lift and Brownian Motion and Some Basic Flows **62**, 149 (1976)
DRUMHELLER, D.S., see BEDFORD, A. **68**, 37 (1978)
DRUMHELLER, D.S., & A. BEDFORD, On the Mechanics and Thermodynamics of Fluid Mixtures **71**, 345 (1979)
DRUMHELLER, D.S., & A. BEDFORD, A Thermomechanical Theory for Reacting Immiscible Mixtures **73**, 257 (1980)
DRUMHELLER, D.S., see BATRA, G., & A. BEDFORD **93**, 223 (1986)
DUFFIN, R.J., Vibration of a Beaded String Analyzed Topologically **56**, 287 (1974)
DUFFIN, R.J., see COLEMAN, B.D., & G. KNOWLES **72**, 381 (1980)
DUNN, J.E., & R.L. FOSDICK, Thermodynamics, Stability, and Boundedness of Fluids of Complexity 2 and Fluids of Second Grade **56**, 191 (1974)
DUNN, J.E., & R.L. FOSDICK, Lemmas in Thermodynamic Stability: A priori Constitutive Inequalities and Induced Global Bounds on Thermodynamic States **67**, 183 (1978)

- DUNN, J.E., & R.L. FOSDICK, The Morphology and Stability of Material Phases **74**, 1 (1980)
- DUNN, J.E., & J. SERRIN, On the Thermomechanics of Interstitial Working **88**, 95 (1985)
- DUNWOODY, J., Errata: One Dimensional Shock Waves in Heat Conducting Materials with Memory **57**, 385 (1975)
- DUNWOODY, J., & N.T. DUNWOODY, On the Admissibility and Existence of Unsteady Retarded Plane Poiseuille Flow of Simple Fluids with Fading Memory. I. Admissibility **80**, 71 (1982)
- DUNWOODY, J., & N.T. DUNWOODY, On the Admissibility and Existence of Unsteady Retarded Plane Poiseuille Flow of Simple Fluids with Fading Memory. II. Existence **80**, 89 (1982)
- DUNWOODY, J., & D.D. JOSEPH, Systematic Linearization for Stability of Shear Flows of Viscoelastic Fluids **86**, 65 (1984)
- DUNWOODY, N.T., see DUNWOODY, J. **80**, 71 (1982)
- DUNWOODY, N.T., see DUNWOODY, J. **80**, 89 (1982)
- DUPAIN, Y., T. KAMAE, & M. MENDÈS FRANCE, Can One Measure the Temperature of a Curve? **94**, 155 (1986)
- DUPAIN, Y., T. KAMAE, & M. MENDÈS FRANCE, Corrigenda to "Can One Measure the Temperature of a Curve?" **98**, 395 (1987)
- DUSSAN, V., E.B., Hydrodynamic Stability and Instability of Fluid Systems with Interfaces **57**, 363 (1975)
- DYSON, D.C., see GILLETTE, R.D. **53**, 150 (1974)
- EASTHAM, M.S.P., W.D. EVANS, & J.B. MCLEOD, The Essential Self-Adjointness of Schrödinger-Type Operators **60**, 185 (1976)
- EBIN, D.G., & R.A. SAXTON, The Initial-Value Problem for Elastodynamics of Incompressible Bodies **94**, 15 (1986)
- ECKER, K., An Interior Gradient Bound for Solutions of Equations of Capillary Type **92**, 137 (1986)
- ECKMANN, J.-P., & R. SÉNÉOR, The Maslov-WKB Method for the (an-)Harmonic Oscillator **61**, 153 (1976)
- EDELEN, D.G.B., On the Existence of Symmetry Relations and Dissipation Potentials **51**, 218 (1973)
- EDELEN, D.G.B., On Decompositions of Operators and Solutions of Functional Inequalities **54**, 212 (1974)
- EDELEN, D.G.B., Implicit Similarities and Inverse Isovector Methods **82**, 181 (1983)
- EDMUND, D.E., & W.D. EVANS, On the Distribution of Eigenvalues of Schrödinger Operators **89**, 135 (1985)
- EDMUND, D.E., & R.M. EDMUND, Embeddings of Anisotropic Sobolev Spaces **94**, 245 (1986)
- EDMUND, R.M., see EDMUND, D.E. **94**, 245 (1986)
- EKELAND, I., see CLARKE, F.H. **78**, 315 (1982)
- ELCRAT, A.R., On the Radial Flow of a Viscous Fluid between Porous Disks **61**, 91 (1976)
- ELCRAT, A.R., On the Flow Between a Rotating Disk and a Porous Disk **73**, 63 (1980)
- ELCRAT, A.R., Corrigenda to "On the Flow Between a Rotating Disk and a Porous Disk" **78**, 395 (1982)
- ELCRAT, A.R., & K.E. LANCASTER, On the Behavior of a Non-parametric Minimal Surface in a Non-convex Quadrilateral **94**, 209 (1986)

- ELIAS, U., Oscillatory Solutions and Extremal Points for a Linear Differential Equation **71**, 177 (1979)
- ELLIOTT, C.M., & S.-M. ZHENG, On the Cahn-Hilliard Equation **96**, 339 (1986)
- ELMROTH, T., Global Boundedness of Moments of Solutions of the Boltzmann Equation for Forces of Infinite Range **82**, 1 (1983)
- ELŻANOWSKI, M., & M. EPSTEIN, Geometric Characterization of Hyperelastic Uniformity **88**, 347 (1985)
- EMMERTH, I.B., On the Existence of Solutions of a Non-Linear Differential Equation with Delay **68**, 155 (1978)
- EPSTEIN, M., see COHEN, H. **72**, 141 (1979)
- EPSTEIN, M., see ELŻANOWSKI, M. **88**, 347 (1985)
- ERICKSEN, J.L., Bending a Prism to Helical Form **66**, 1 (1978)
- ERICKSEN, J.L., On St.-Venant's Problem for Thin-walled Tubes **70**, 7 (1979)
- ERICKSEN, J.L., On the Symmetry of Deformable Crystals **72**, 1 (1979)
- ERICKSEN, J.L., Some Phase Transitions in Crystals **73**, 99 (1980)
- ERICKSEN, J.L., Published Works of **87**, 379 (1985)
- ERICKSEN, J.L., Some Surface Defects in Unstressed Thermoelastic Solids **88**, 337 (1985)
- ERICKSEN, J.L., Stable Equilibrium Configurations of Elastic Crystals **94**, 1 (1986)
- ERICSON, W.B., see BAZER, J. **55**, 124 (1974)
- EVANS, L.C., see BREZIS, H. **71**, 1 (1979)
- EVANS, L.C., & R. GARIEPY, Wiener's Criterion for the Heat Equation **78**, 293 (1982)
- EVANS, L.C., see CAFFARELLI, L.A. **81**, 199 (1983)
- EVANS, L.C., Quasiconvexity and Partial Regularity in the Calculus of Variations **95**, 227 (1986)
- EVANS, W.D., see EASTHAM, M.S.P., & J.B. MCLEOD **60**, 185 (1976)
- EVANS, W.D., see EDMUND, D.E. **89**, 135 (1985)
- EVERITT, W.N., see AMOS, R.J. **71**, 15 (1979)
- FABES, E.B., & D.W. STROOCK, A New Proof of Moser's Parabolic Harnack Inequality Using the Old Ideas of Nash **96**, 327 (1986)
- FABRIZIO, M., Problemi di Unicità per le Equazioni di Navier-Stokes in Domini non Limitati **68**, 171 (1978)
- FABRIZIO, M., see COLEMAN, B.D., & D.R. OWEN **80**, 135 (1982)
- FAIOCCHI, C., G. BUTTAZZO, F. GASTALDI, & F. TOMARELLI, General Existence Theorems for Unilateral Problems in Continuum Mechanics **100**, 149 (1988)
- FALK, R.S., see ARNOLD, D.N. **98**, 143 (1987)
- FALTENBACHER, W., see BATT, J., & E. HORST **93**, 159 (1986)
- FASANO, A., see CANNON, J.R. **53**, 1 (1973)
- FEDERER, H., A Minimizing Property of Extremal Submanifolds **59**, 207 (1975)
- FEINBERG, M., & F.J.M. HORN, Chemical Mechanism Structure and the Coincidence of the Stoichiometric and Kinetic Subspaces **66**, 83 (1978)
- FEINBERG, M., On Gibbs' Phase Rule **70**, 219 (1979)
- FEINBERG, M., & R. LAVINE, Thermodynamics Based on the Hahn-Banach Theorem: The Clausius Inequality **82**, 203 (1983)
- FELDMAN, E.A., see CHAVEL, I. **65**, 263 (1977)
- FICHERA, G., Avere Una Memoria Tenace Crea Gravi Problemi **70**, 101 (1979)
- FIEDLER, B., Global Hopf Bifurcation of Two-Parameter Flows **94**, 59 (1986)
- FIFE, P.C., Semilinear Elliptic Boundary Value Problems with Small Parameters **52**, 205 (1973)

- FIFE, P.C., & L.A. PELETIER, Nonlinear Diffusion in Population Genetics **64**, 93 (1977)
- FIFE, P.C., & J.B. MCLEOD, The Approach of Solutions of Nonlinear Diffusion Equations to Travelling Front Solutions **65**, 335 (1977)
- FIFE, P.C., Long Time Behavior of Solutions of Bistable Nonlinear Diffusion Equations **70**, 31 (1979)
- FIFE, P.C., see TANG, M.M. **73**, 69 (1980)
- FIFE, P.C., & J.B. MCLEOD, A Phase Plane Discussion of Convergence to Travelling Fronts for Nonlinear Diffusion **75**, 281 (1981)
- FIFE, P.C., L. HSIAO, & T. ZHANG, A Multiparameter Study of a Boundary Value Problem from Chemical Reactor Theory **92**, 307 (1986)
- FISHER, S.D., Solutions of Some Non-Linear Variational Problems in L^∞ and the Problem of Minimum Curvature **61**, 291 (1976)
- FIX, G.J., & E. STEPHAN, On the Finite Element-Least Squares Approximation to Higher Order Elliptic Systems **91**, 137 (1986)
- FLASCHKA, H., On the Inverse Problem for Hill's Operator **59**, 293 (1975)
- FLAVIN, J.N., On Knowles' Version of Saint-Venant's Principle in Two-Dimensional Elastostatics **53**, 366 (1974)
- FLECKINGER, J., & M.L. LAPIDUS, Remainder Estimates for the Asymptotics of Elliptic Eigenvalue Problems with Indefinite Weights **98**, 329 (1987)
- FLETCHER, D.C., Conservation Laws in Linear Elastodynamics **60**, 329 (1976)
- FONSECA, I., Variational Methods for Elastic Crystals **97**, 189 (1987)
- FOSDICK, R.L., see DUNN, J.E. **56**, 191 (1974)
- FOSDICK, R.L., & J. SERRIN, Global Properties of Continuum Thermodynamic Processes **59**, 97 (1975)
- FOSDICK, R.L., see DUNN, J.E. **67**, 183 (1978)
- FOSDICK, R.L., & K.R. RAJAGOPAL, Anomalous Features in the Model of "Second Order Fluids" **70**, 145 (1979)
- FOSDICK, R.L., see DUNN, J.E. **74**, 1 (1980)
- FOSDICK, R.L., & K.R. RAJAGOPAL, On the Existence of a Manifold for Temperature **81**, 317 (1983)
- FOSDICK, R.L., & G. MACSITHIGH, Helical Shear of an Elastic, Circular Tube with a Non-Convex Stored Energy **84**, 31 (1983)
- FOSDICK, R.L., & G.E. MACSITHIGH, Errata in our paper "Helical Shear of an Elastic, Circular Tube with a Non-Convex Stored Energy", [Volume 84, 31-53 (1983)] **86**, 395 (1984)
- FOSDICK, R.L., & J. PATIÑO, On the Gibbsian Thermo statics of Mixtures **93**, 203 (1986)
- FOX, N., see ATKIN, R.J. **87**, 1 (1984)
- FRAENKEL, L.E., see AMICK, C.J. **92**, 91 (1986)
- FRAENKEL, L.E., see AMICK, C.J. **100**, 207 (1988)
- FRANCFORST, G.A., & F. MURAT, Homogenization and Optimal Bounds in Linear Elasticity **94**, 307 (1986)
- FRANCFORST, G.A., & P.M. SUQUET, Homogenization and Mechanical Dissipation in Thermoviscoelasticity **96**, 265 (1986)
- FRANKEL, T., A Heuristic Derivation of the Einstein Equations **56**, 273 (1974)
- FREILING, G., Singular Perturbations of Multi-Point Eigenvalue Problems **86**, 197 (1984)
- FRIEDBERG, R., & J.M. LUTTINGER, Rearrangement Inequality for Periodic Functions **61**, 35 (1976)
- FRIEDBERG, R., see LUTTINGER, J.M. **61**, 45 (1976)

- FRIEDBERG, R., see LUTTINGER, J.M. **61**, 187 (1976)
- FRIEDLAND, S., Extremal Eigenvalue Problems Defined for Certain Classes of Functions **67**, 73 (1977)
- FRIEDMAN, A., Stochastic Games and Variational Inequalities **51**, 321 (1973)
- FRIEDMAN, A., Regularity Theorems for Variational Inequalities in Unbounded Domains and Applications to Stopping Time Problems **52**, 134 (1973)
- FRIEDMAN, A., Analyticity of the Free Boundary for the Stefan Problem **61**, 97 (1976)
- FRIEDMAN, A., see ANDERSON, R.F. **63**, 205 (1977)
- FRIEDMAN, A., & R. JENSEN, Convexity of the Free Boundary in the Stefan Problem and in the Dam Problem **67**, 1 (1977)
- FRIEDMAN, A., see CAFFARELLI, L.A. **68**, 125 (1978)
- FRIEDMAN, A., Reinforcement of the Principal Eigenvalue of an Elliptic Operator **73**, 1 (1980)
- FRIEDMAN, A., see ALT, H.W., & L.A. CAFFARELLI **81**, 97 (1983)
- FRIEDMAN, A., see CAFFARELLI, L.A. **91**, 83 (1985)
- FRIEDMAN, A., see COCKER, A.D., & B. MCLEOD **93**, 15 (1986)
- FRIEDMAN, A., Injection of Ideal Fluid from a Slot into a Free Stream **94**, 335 (1986)
- FRIEDMAN, A., & B. MCLEOD, Blow-up of Solutions of Nonlinear Degenerate Parabolic Equations **96**, 55 (1986)
- FRIEDMAN, A., & L. VÉRON, Singular Solutions of Some Quasilinear Elliptic Equations **96**, 359 (1986)
- FRIEDMAN, A., & B. MCLEOD, Optimal Design of an Optical Lens **99**, 147 (1987)
- FRISCH, U., see BARDOS, C., PENEL, P., & P.L. SULEM **71**, 237 (1979)
- FUČÍK, S., J. NEČAS, J. SOUČEK, & V. SOUČEK, Krasnoselskii's Main Bifurcation Theorem **54**, 328 (1974)
- FUSCO, N., see ACERBI, E. **86**, 125 (1984)
- FUSCO, N., see ACERBI, E. **99**, 261 (1987)
- GACKSTATTER, F., Über die Dimension einer Minimalfläche und zur Ungleichung von St. Cohn-Vossen **61**, 141 (1976)
- GACKSTATTER, F., & R. KUNERT, Konstruktion vollständiger Minimalflächen von endlicher Gesamtkrümmung **65**, 289 (1977)
- GALDI, G.P., Casi di Non Validità di una Riformulazione del Metodo dell'Energia **59**, 1 (1975)
- GALDI, G.P., see RIONERO, S. **62**, 295 (1976)
- GALDI, G.P., see RIONERO, S. **69**, 37 (1979)
- GALDI, G.P., & S. RIONERO, Local Estimates and Stability of Viscous Flows in an Exterior Domain **81**, 333 (1983)
- GALDI, G.P., Non-Linear Stability of the Magnetic Bénard Problem via a Generalized Energy Method **87**, 167 (1985)
- GALDI, G.P., R.J. KNOPS, & S. RIONERO, Asymptotic Behaviour in the Nonlinear Elastic Beam **87**, 305 (1985)
- GALDI, G.P., & B. STRAUGHAN, Exchange of Stabilities, Symmetry, and Nonlinear Stability **89**, 211 (1985)
- GALDI, G.P., & P. MAREMONTI, A Uniqueness Theorem for Viscous Fluid Motions in Exterior Domains **91**, 375 (1986)
- GALDI, G.P., & P. MAREMONTI, Monotonic Decreasing and Asymptotic Behavior of the Kinetic Energy for Weak Solutions of the Navier-Stokes Equations in Exterior Domains **94**, 253 (1986)

- GARIEPY, R., & W.P. ZIEMER, Behavior at the Boundary of Solutions of Quasilinear Elliptic Equations **56**, 372 (1974)
- GARIEPY, R., & W.P. ZIEMER, A Regularity Condition at the Boundary for Solutions of Quasilinear Elliptic Equations **67**, 25 (1977)
- GARIEPY, R., see DI BENEDETTO, E. **97**, 1 (1987)
- GARIEPY, R., see EVANS, L.C. **78**, 293 (1982)
- GASTALDI, F., see BAIOCCHI, C., BUTTAZZO G., & F. TOMARELLI **100**, 149 (1988)
- GATES, D.J., I. GERST, & M. KAC, Non-Markovian Diffusion in Idealized Lorentz Gases **51**, 106 (1973)
- GATES, D.J., An Exactly Solvable Lorentz Gas **61**, 175 (1976)
- GEORGAKIS, C., & R.L. SANI, On the Stability of the Steady State in Systems of Coupled Diffusion and Reaction **52**, 266 (1973)
- GEORGESCU, V., On the Operator of Symmetric Differentiation on a Compact Riemannian Manifold with Boundary **74**, 143 (1980)
- GERDES, W., & E. MARTENSEN, Retardierte Potentiale und Darstellung von Raumzeitfunktionen mit unbeschränktem Definitionsbereich **58**, 11 (1975)
- GERHARDT, C., Regularity of Solutions of Nonlinear Variational Inequalities **52**, 389 (1973)
- GERHARDT, C., Regularity of Solutions of Nonlinear Variational Inequalities with a Gradient Bound as Constraint **58**, 309 (1975)
- GERHARDT, C., Global $C^{1,1}$ -Regularity for Solutions of Quasilinear Variational Inequalities **89**, 83 (1985)
- GERST, I., see GATES, D.J., & M. KAC **51**, 106 (1973)
- GEYMONAT, G., & E. SANCHEZ-PALENCIA, On the Vanishing Viscosity Limit for Acoustic Phenomena in a Bounded Region **75**, 257 (1981)
- GEYMONAT, G., see BUZANO, E., & T. POSTON **89**, 307 (1985)
- GEYMONAT, G., & P. LEYLAND, Transport and Propagation of a Perturbation of a Flow of a Compressible Fluid in a Bounded Region **100**, 53 (1987)
- GHORI, Q.K., & M. HUSSAIN, Poincaré's Equations for a Nonholonomic System with Variable Masses **56**, 70 (1974)
- GHORI, Q.K., Conservation Laws for Dynamical Systems in Poincaré-Četaev Variables **64**, 327 (1977)
- GHORI, Q.K., & N. AHMED, Levi-Civita's Theorem for Dynamical Equations with Constraint Multipliers **85**, 1 (1984)
- GIAQUINTA, M., & E. GIUSTI, Researches on the Equilibrium of Masonry Structures **88**, 359 (1985)
- GIGA, Y., Domains of Fractional Powers of the Stokes Operator in L_p Spaces **89**, 251 (1985)
- GIGA, Y., & T. MIYAKAWA, Solutions in L_p of the Navier-Stokes Initial Value Problem **89**, 267 (1985)
- GILBARG, D., & L. HÖRMANDER, Intermediate Schauder Estimates **74**, 297 (1980)
- GILDING, B.H., & L.A. PELETTIER, The Cauchy Problem for an Equation in the Theory of Infiltration **61**, 127 (1976)
- GILDING, B.H., Properties of Solutions of an Equation in the Theory of Infiltration **65**, 203 (1977)
- GILDING, B.H., The Occurrence of Interfaces in Nonlinear Diffusion-Advection Processes **100**, 243 (1988)
- GILLETTE, R.D., & D.C. DYSON, Stability of Static Configurations with Applications to the Theory of Capillarity **53**, 150 (1974)
- GIOVINE, P., see CAPRIZ, G. **98**, 115 (1987)
- GIUSTI, E., see GIAQUINTA, M. **88**, 359 (1985)

- GIUSTI, E., On the Behavior of the Derivatives of Minimizers near Singular Points **96**, 137 (1986)
- GLASNER, M., & M. NAKAI, Images of Reduction Operators **75**, 387 (1981)
- GLASSEY, R.T., see CHADAM, J.M. **54**, 223 (1974)
- GLASSEY, R.T., & W.A. STRAUSS, Singularity Formation in a Collisionless Plasma Could Occur Only at High Velocities **92**, 59 (1986)
- GLIKSON, A., Corrigenda: On Solution of the Nonlinear Boltzmann Equation with a Cut-off in an Unbounded Domain **51**, 387 (1973)
- GOLUBITSKY, M.A., see SCHAEFFER, D.G. **75**, 315 (1981)
- GOLUBITSKY, M.A., & I. STEWART, Hopf Bifurcation in the Presence of Symmetry **87**, 107 (1985)
- GOODMAN, J., Nonlinear Asymptotic Stability of Viscous Shock Profiles for Conservation Laws **95**, 325 (1986)
- GORNİK, K., Ein Differenzierbarkeitssatz für Lösungen zweidimensionaler Variationsprobleme mit „zweischaligem Hindernis“ **64**, 127 (1977)
- GOSSEZ, J.-P., & E. LAMI DOZO, On the Principal Eigenvalue of a Second Order Linear Elliptic Problem **89**, 169 (1985)
- GRECO, A., & I. MÜLLER, Extended Thermodynamics and Superfluidity **85**, 279 (1984)
- GREEN, A.E., Compressible Fluid Jets **59**, 189 (1975)
- GREEN, A.E., & P.M. NAGHDI, A Direct Theory of Viscous Fluid Flow in Channels **86**, 39 (1984)
- GREEN, A.E., & P.M. NAGHDI, Corrigenda to “A Direct Theory of Viscous Fluid Flow in Channels” [Volume **86**, 39 (1984)] **90**, 389 (1985)
- GREENBERG, J.M., On the Interaction of Shocks and Simple Waves of the Same Family. II **51**, 209 (1973)
- GREENBERG, J.M., Smooth and Time-Periodic Solutions to the Quasilinear Wave Equation **60**, 29 (1975)
- GREENBERG, J.M., & L. HSIAO, The Riemann Problem for the System $u_t + \sigma_x = 0$ and $(\sigma - f(u))_t + (\sigma - \mu f(u))_x = 0$ **82**, 87 (1983)
- GREENLEE, W.M., A Convergent Variational Method of Eigenvalue Approximation **81**, 279 (1983)
- GRILLAKIS, M., see DASSIOS, G. **87**, 49 (1984)
- GRÖGER, K., On the Existence of Steady States of Certain Reaction-Diffusion Systems **92**, 297 (1986)
- GRÜTER, M., Boundary Regularity for Solutions of a Partitioning Problem **97**, 261 (1987)
- GUCKENHEIMER, J., Shocks and Rarefactions in Two Space Dimensions **59**, 281 (1975)
- GUCKENHEIMER, J., see DANGELMAYR, G. **97**, 321 (1987)
- GUILLOT, J.C., & G. SCHMIDT, Spectral and Scattering Theory for Dirac Operators **55**, 193 (1974)
- GULLIVER, R., & F.D. LESLEY, On Boundary Branch Points of Minimizing Surfaces **52**, 20 (1973)
- GUPTA, A.S., see RAJAGOPAL, K.R., & B.S. DANDAPAT **83**, 91 (1983)
- GURTIN, M.E., & P. PODIO GUIDUGLI, The Thermodynamics of Constrained Materials **51**, 192 (1973)
- GURTIN, M.E., Thermodynamics and the Energy Criterion for Stability **52**, 93 (1973)
- GURTIN, M.E., & R.C. MACCAMY, Non-linear Age-dependent Population Dynamics **54**, 281 (1974)

- GURTIN, M.E., & A. IAN MURDOCH, A Continuum Theory of Elastic Material Surfaces **57**, 291 (1975)
- GURTIN, M.E., Thermodynamics and Stability **59**, 63 (1975)
- GURTIN, M.E., & A.I. MURDOCH, Addenda to our Paper a Continuum Theory of Elastic Material Surfaces **59**, 389 (1975)
- GURTIN, M.E., & L.C. MARTINS, Cauchy's Theorem in Classical Physics **60**, 305 (1976)
- GURTIN, M.E., & S.J. SPECTOR, On Stability and Uniqueness in Finite Elasticity **70**, 153 (1979)
- GURTIN, M.E., D.W. REYNOLDS, & S.J. SPECTOR, On Uniqueness and Bifurcation in Nonlinear Viscoelasticity **72**, 303 (1980)
- GURTIN, M.E., & C. YATOMI, On the Energy Release Rate in Elastodynamic Crack Propagation **74**, 231 (1980)
- GURTIN, M.E., Two-Phase Deformations of Elastic Solids **84**, 1 (1983)
- GURTIN, M.E., see CARR, J., & M. SLEMROD **86**, 317 (1984)
- GURTIN, M.E., On a Theory of Phase Transitions with Interfacial Energy **87**, 187 (1985)
- GURTIN, M.E., W.O. WILLIAMS, & W.P. ZIEMER, Geometric Measure Theory and the Axioms of Continuum Thermodynamics **92**, 1 (1986)
- GURTIN, M.E., On the Two-Phase Stefan Problem with Interfacial Energy and Entropy **96**, 199 (1986)
- GURTIN, M.E., On Phase Transitions with Bulk, Interfacial, and Boundary Energy **96**, 243 (1986)
- GURTIN, M.E., Toward a Nonequilibrium Thermodynamics of Two-Phase Materials **100**, 275 (1988)
- GURTIN, M.E., Corrections for the paper: On the Two-Phase Stefan Problem with Interfacial Energy and Entropy [Volume **96**, 199-241 (1986)] **100**, 313 (1988)
- GUSTAFSON, K., & D. SATHER, Large Nonlinearities and Closed Linear Operators **52**, 10 (1973)
- GUSTAFSSON, T., L^p -Estimates for the Nonlinear Spatially Homogeneous Boltzmann Equation **92**, 23 (1986)
- HABETLER, G.J., & B.J. MATKOWSKY, On the Validity of a Nonlinear Dynamic Stability Theory **57**, 166 (1975)
- HADELER, K.P., & J. TOMIUK, Periodic Solutions of Difference-Differential Equations **65**, 87 (1977)
- HAGAN, R., & M. SLEMROD, The Viscosity-Capillarity Criterion for Shocks and Phase Transitions **83**, 333 (1983)
- HAGEDORN, P., Über die Instabilität konservativer Systeme mit gyroskopischen Kräften **58**, 1 (1975)
- HAGEDORN, P., On Non-Conservative Systems with Ignorable Coordinates **68**, 89 (1978)
- HAINZL, J., Zur Gruppeninvarianz linearer partieller Differentialgleichungen mit konstanten Koeffizienten **59**, 149 (1975)
- HALE, J.K., see CHOW, S.-N., & J. MALLET-PARET **59**, 159 (1975)
- HALE, J.K., see CHOW, S.-N., & J. MALLET-PARET **62**, 209 (1976)
- HALE, J.K., & J. VEGAS, A Nonlinear Parabolic Equation with Varying Domain **86**, 99 (1984)
- HALLAM, T.G., & D.E. LOPER, Singular Boundary Value Problems Arising in a Rotating Fluid Flow **60**, 355 (1976)
- HARAUX, A., see BAILLON, J.B. **67**, 101 (1977)

- HARAUX, A., & E. ZUAZUA, Decay Estimates for Some Semilinear Damped Hyperbolic Problems **100**, 191 (1988)
- HARTMAN, P., On the Sacksteder Decomposition of Complete W-Hypersurfaces of Nonnegative Sectional Curvature **70**, 13 (1979)
- HARTMAN, P., On the Maximum Principles of A.D. Alexandrov in the Uniqueness Theory for Hypersurfaces **74**, 319 (1980)
- HARTWIG, E., Block Generalized Inverses **61**, 197 (1976)
- HASTINGS, S.P., On Travelling Wave Solutions of the Hodgkin-Huxley Equations **60**, 229 (1976)
- HASTINGS, S.P., & J.B. MCLEOD, A Boundary Value Problem Associated with the Second Painlevé Transcendent and the Korteweg de Vries Equation **73**, 31 (1980)
- HASTINGS, S.P., & N.D. KAZARINOFF, Multiple Solutions for a Problem in Buoyancy Induced Flow **89**, 229 (1985)
- HATTORI, H., The Riemann Problem for a van der Waals Fluid with Entropy Rate Admissibility Criterion – Isothermal Case **92**, 247 (1986)
- HAYES, M., Inhomogeneous Plane Waves **85**, 41 (1984)
- HAYES, M., Inhomogeneous Electromagnetic Plane Waves in Crystals **97**, 221 (1987)
- HAYES, M., On Strain and Straining **100**, 265 (1988)
- HEINS, A.E., The Fundamental Solution for the Axially Symmetric Wave Equation **67**, 83 (1977)
- HEJHAL, D.A., Some Remarks on Kernel Functions and Abelian Differentials **52**, 199 (1973)
- HERRERA, I., & J. BIELAK, A Simplified Version of Gurtin's Variational Principles **53**, 131 (1974)
- HERSCH, J., L.E. PAYNE, & M.M. SCHIFFER, Some Inequalities for Stekloff Eigenvalues **57**, 99 (1975)
- HESS, P., On the Eigenvalue Problem for Weakly Coupled Elliptic Systems **81**, 151 (1983)
- HESTENES, M., & R. REDHEFFER, On the Minimization of Certain Quadratic Functionals. I **56**, 1 (1974)
- HESTENES, M., & R. REDHEFFER, On the Minimization of Certain Quadratic Functionals. II **56**, 15 (1974)
- HEWGILL, D.E., On the Growth of the Eigenvalues of an Elliptic Operator in a Quasibounded Domain **56**, 367 (1974)
- HILDEBRANDT, S., & J.C.C. NITSCHE, A Uniqueness Theorem for Surfaces of Least Area with Partially Free Boundaries on Obstacles **79**, 189 (1982)
- HILE, G.N., & M.H. PROTTER, Properties of Overdetermined First Order Elliptic Systems **66**, 267 (1978)
- HILLS, R.N., & R.J. KNOPS, Continuous Dependence for the Compressible Linearly Viscous Fluid **51**, 54 (1973)
- HILLS, R.N., & P.H. ROBERTS, Superfluid Mechanics for a High Density of Vortex Lines **66**, 43 (1978)
- HODGDON, M.L., see COLEMAN, B.D. **90**, 219 (1985)
- HODGDON, M.L., see COLEMAN, BERNHARD D. **99**, 375 (1987)
- HOGER, A., On the Residual Stress Possible in an Elastic Body with Material Symmetry **88**, 271 (1985)
- HOLLAND, C.J., see BERRYMAN, J.G. **74**, 379 (1980)
- HOLMES, P., & J. MARSDEN, A Partial Differential Equation with Infinitely many Periodic Orbits: Chaotic Oscillations of a Forced Beam **76**, 135 (1981)
- HOLMES, P., & R.F. WILLIAMS, Knotted Periodic Orbits in Suspensions of Smale's Horseshoe: Torus Knots and Bifurcation Sequences **90**, 115 (1985)

- HOOGSTRATEN, H.W., & B. KAPER, An Asymptotic Theory for a Class of Weakly Nonlinear Oscillations **58**, 239 (1975)
- HORGAN, C.O., Plane Entry Flows and Energy Estimates for the Navier-Stokes Equations **68**, 359 (1978)
- HORGAN, C.O., & W.E. OLMSTEAD, Exponential Decay Estimates for a Class of Nonlinear Dirichlet Problems **71**, 221 (1979)
- HORGAN, C.O., & L.E. PAYNE, On Inequalities of Korn, Friedrichs and Babuška-Aziz **82**, 165 (1983)
- HORGAN, C.O., & L.E. PAYNE, Decay Estimates for a Class of Second-Order Quasi-linear Equations in Three Dimensions **86**, 279 (1984)
- HÖRMANDER, L., The Boundary Problems of Physical Geodesy **62**, 1 (1976)
- HÖRMANDER, L., Correction to: The Boundary Problems of Physical Geodesy. [Volume **62**, 1-52 (1976)] **65**, 395 (1977)
- HÖRMANDER, L., see GILBARG, D. **74**, 297 (1980)
- HORN, F.J.M., see FEINBERG, M. **66**, 83 (1978)
- HORNDESKI, G.W., Gauge Invariance and Charge Conservation in Non-Abelian Gauge Theories **75**, 211 (1981)
- HORNDESKI, G.W., Conservation of Charge and Second-Order Gauge-Tensor Field Theories **75**, 229 (1981)
- HORST, E., see BATT, J., & W. FALTENBACHER **93**, 159 (1986)
- HOWES, F.A., Singular Perturbation Analysis of a Class of Boundary Value Problems Arising in Catalytic Reaction Theory **66**, 237 (1978)
- HOWES, F.A., Multi-dimensional Initial-boundary Value Problems with Strong Non-linearities **91**, 153 (1986)
- HRUSA, W.J., A Nonlinear Functional Differential Equation in Banach Space with Applications to Materials with Fading Memory **84**, 99 (1983)
- HRUSA, W.J., see DAFERMOS, C.M. **87**, 267 (1985)
- HRUSA, W.J., see COLEMAN, B.D., & D.R. OWEN **94**, 267 (1986)
- HSIAO, G.C., On the Stability of Integral Equations of the First Kind with Logarithmic Kernels **94**, 179 (1986)
- HSIAO, L., see GREENBERG, J.M. **82**, 87 (1983)
- HSIAO, L., see FIFE, P., & T. ZHANG **92**, 307 (1986)
- HUEBER, H., & M. SIEVEKING, Continuous Bounds for Quotients of Green Functions **89**, 57 (1985)
- HUGHES, T.J.R., T. KATO, & J.E. MARSDEN, Well-posed Quasi-linear Second-order Hyperbolic Systems with Applications to Nonlinear Elastodynamics and General Relativity **63**, 273 (1977)
- HUILGOL, R.R., On Zorawski's Condition for a Velocity Field in One Frame to be Steady in a Second Frame **76**, 183 (1981)
- HULSHOF, J., see VAN DUIJN, C.J. **99**, 61 (1987)
- HURD, A.E., Existence of Time Evolutions of Non-Equilibrium States in Statistical Mechanics **85**, 201 (1984)
- HURD, A.E., Global Existence and Validity for the BBGKY Hierarchy **98**, 191 (1987)
- HUSSAIN, M., see GHORI, Q.K. **56**, 70 (1974)
- HUTTER, K., On Thermodynamics and Thermostatics of Viscous Thermoelastic Solids in the Electromagnetic Fields. A Lagrangian Formulation **58**, 339 (1975)
- HUTTER, K., Corrigenda: "On Thermodynamics and Thermostatics of Viscous Thermoelastic Solids in Electromagnetic Fields. A Lagrangian Formulation." [Volume **58**, 339-368 (1975)] **62**, 393 (1976)
- HUTTER, K., A Thermodynamic Theory of Fluids and Solids in Electromagnetic Fields **64**, 269 (1977)

- IANNECE, D., A. ROMANO, & G. STARITA, An Approach to Thermodynamics of Materials with Fading Memory **75**, 373 (1981)
- IESAN, D., On Saint-Venant's Problem **91**, 363 (1986)
- INFANTE, E.F., & J.A. WALKER, A Stability Investigation for an Incompressible Simple Fluid with Fading Memory **72**, 203 (1980)
- IOOSS, G., Bifurcation of a Periodic Solution of the Navier-Stokes Equations into an Invariant Torus **58**, 35 (1975)
- IOOSS, G., Sur la deuxième bifurcation d'une solution stationnaire de systèmes du type Navier-Stokes **64**, 339 (1977)
- IOOSS, G., & D.D. JOSEPH, Bifurcation and Stability of nT -Periodic Solutions Branching from T -Periodic Solutions at Points of Resonance **66**, 135 (1978)
- IOOSS, G., H.B. NIELSEN, & H. TRUE, Bifurcation of the Stationary Ekman Flow into a Stable Periodic Flow **68**, 227 (1978)
- IOOSS, G., see CHENCINER, A. **69**, 109 (1979)
- IOOSS, G., see CHENCINER, A. **71**, 301 (1979)
- IOOSS, G., see CHOSSAT, P., & Y. DEMAY **99**, 213 (1987)
- IVANOV, M.YA., see BARENBLATT, G.I., & G.I. SHAPIRO **87**, 293 (1985)
- JAHANMIR, M., see TIERSTEN, H.F. **65**, 153 (1977)
- JAMES, R.D., Co-existent Phases in the One-Dimensional Static Theory of Elastic Bars **72**, 99 (1979)
- JAMES, R.D., The Propagation of Phase Boundaries in Elastic Bars **73**, 125 (1980)
- JAMES, R.D., Finite Deformation by Mechanical Twinning **77**, 143 (1981)
- JAMES, R.D., Stress-Free Joints and Polycrystals **86**, 13 (1984)
- JAMES, R.D., see BALL, J.M. **100**, 13 (1987)
- JEAN, M., Free Surface of the Steady Flow of a Newtonian Fluid in a Finite Channel **74**, 197 (1980)
- JENKINS, J.T., & M.W. RICHMAN, Grad's 13-Moment System for a Dense Gas of Inelastic Spheres **87**, 355 (1985)
- JENSEN, R., see FRIEDMAN, A. **67**, 1 (1977)
- JONES, M., & J. TOLAND, Symmetry and the Bifurcation of Capillary-Gravity Waves **96**, 29 (1986)
- JONG UHN KIM, On the Time-Dependent Swirling Flow Between Two Rotating Disks **95**, 51 (1986)
- JOSEPH, D.D., Domain Perturbations: The Higher Order Theory of Infinitesimal Water Waves **51**, 295 (1973)
- JOSEPH, D.D., Repeated Supercritical Branching of Solutions Arising in the Variational Theory of Turbulence **53**, 101 (1974)
- JOSEPH, D.D., Slow Motion and Viscometric Motion; Stability and Bifurcation of the Rest State of a Simple Fluid **56**, 99 (1974)
- JOSEPH, D.D., & D.A. NIELD, Stability of Bifurcating Time-Periodic and Steady Solutions of Arbitrary Amplitude **58**, 369 (1975)
- JOSEPH, D.D., see STURGES, L. **59**, 359 (1975)
- JOSEPH, D.D., (I), & G.S. BEAVERS, (II), The Free Surface on a Simple Fluid Between Cylinders Undergoing Torsional Oscillations. Part I: Theory, Part II: Experiments **62**, 323 (1976)
- JOSEPH, D.D., see STURGES, L.D. **64**, 245 (1977)
- JOSEPH, D.D., Factorization Theorems, Stability and Repeated Bifurcation **66**, 99 (1978)
- JOSEPH, D.D., see IOOSS, G. **66**, 135 (1978)
- JOSEPH, D.D., Rotating Simple Fluids **66**, 311 (1978)

- JOSEPH, D.D., An Integral Invariant for Jets of Liquid into Air **74**, 389 (1980)
JOSEPH, D.D., Instability of the Rest State of Fluids of Arbitrary Grade Greater than One **75**, 251 (1981)
JOSEPH, D.D., see DIXIT, P.M., & A. NARAIN **77**, 199 (1981)
JOSEPH, D.D., L.D. STURGES, & W.H. WARNER, Convergence of Biorthogonal Series of Biharmonic Eigenfunctions by the Method of Titchmarsh **78**, 223 (1982)
JOSEPH, D.D., see SAUT, J.C. **81**, 53 (1983)
JOSEPH, D.D., see DUNWOODY, J. **86**, 65 (1984)
JOSEPH, D.D., M. RENARDY, & J.-C. SAUT, Hyperbolicity and Change of Type in the Flow of Viscoelastic Fluids **87**, 213 (1985)
JOURON, C., Resolution numérique du problème des surfaces minima **59**, 311 (1975)
- KAC, M., see GATES, D.J., & I. GERST, **51**, 106 (1973)
KADIANAKIS, N., see APPLEBY, P.G. **84**, 171 (1983)
KADIANAKIS, N., see APPLEBY, P.G. **95**, 1 (1986)
KALF, H., & J. WALTER, Note on a Paper of Simon on Essentially Self-Adjoint Schrödinger Operators with Singular Potentials **52**, 258 (1973)
KAMAE, T., see DUPAIN, Y., & M. MENDÈS FRANCE **94**, 155 (1986)
KAMAE, T., see DUPAIN, Y., & M. MENDÈS FRANCE **98**, 395 (1987)
KAMIN (KAMENOMOSTSKAYA), S., Similar Solutions and the Asymptotics of Filtration Equations **60**, 171 (1976)
KANNAN, R., see CESARI, L. **82**, 295 (1983)
KAPER, B., see HOOGSTRATEN, H.W. **58**, 239 (1975)
KAPPEL, F., & F. DI PASQUANTONIO, Stability Criteria for Kinetic Reactor Equations **58**, 317 (1975)
KARASALO, I., Stability of Axisymmetric Annular Fluid Interfaces at Zero Contact Angle **71**, 257 (1979)
KARTSATOS, A.G., Banach-Space-Valued Solutions of Differential Equations Containing a Parameter **57**, 142 (1975)
KATO, T., The Cauchy Problem for Quasi-Linear Symmetric Hyperbolic Systems **58**, 181 (1975)
KATO, T., see HUGHES, T.J.R., & J.E. MARSDEN **63**, 273 (1977)
KAWOHL, B., On the Isoperimetric Nature of a Rearrangement Inequality and its Consequences for Some Variational Problems **94**, 227 (1986)
KAZARINOFF, N.D., see BLOOM, C.O. **55**, 73 (1974)
KAZARINOFF, N.D., see HASTINGS, S.P. **89**, 229 (1985)
KEENER, J.P., Perturbed Bifurcation Theory at Multiple Eigenvalues **56**, 348 (1974)
KENNEY, C.S., see ANTMAN, S.S. **76**, 289 (1981)
KENYON, D.E., Thermostatics of Solid-Fluid Mixtures **62**, 117 (1976)
KENYON, D.E., The Theory of an Incompressible Solid-Fluid Mixture **62**, 131 (1976)
KENYON, D.E., Corrigendum to "The Theory of an Incompressible Solid-Fluid Mixture". [Volume **62**, 131-147 (1976)] **64**, 385 (1977)
KERCZEK, C. VON see DAVIS, S.H. **52**, 112 (1973)
KEYFITZ, B.L., & H.C. KRANZER, A System of Non-Strictly Hyperbolic Conservation Laws Arising in Elasticity Theory **72**, 219 (1980)
KIELHÖFER, H., Stability and Semilinear Evolution Equations in Hilbert Space **57**, 150 (1975)
KIELHÖFER, H., Hopf Bifurcation at Multiple Eigenvalues **69**, 53 (1979)
KIELHÖFER, H., Corrigenda: Hopf Bifurcation at Multiple Eigenvalues **74**, 395 (1980)

- KIM, J.U., Global Smooth Solutions of the Equations of Motion of a Nonlinear Fluid with Fading Memory **79**, 97 (1982)
- KINDERLEHRER, D., see CHIPOT, M., & G. VERGARA CAFFARELLI **96**, 81 (1986)
- KITAMURA, Y., & T. KUSANO, Oscillation Criteria for Semilinear Metaharmonic Equations in Exterior Domains **75**, 79 (1980)
- KLAINERMAN, S., Long-Time Behavior of Solutions to Nonlinear Evolution Equations **78**, 73 (1982)
- KLEINMAN, R.E., see AHNER, J.F. **52**, 26 (1973)
- KLUVÁNEK, I., Operator Valued Measures and Perturbations of Semi-Groups **81**, 161 (1983)
- KNER, B.F., Parabolic Interior Schauder Estimates by the Maximum Principle **75**, 51 (1980)
- KNIGHTLY, G.H., & D. SATHER, Nonlinear Buckled States of Rectangular Plates **54**, 356 (1974)
- KNIGHTLY, G.H., & D. SATHER, Existence and Stability of Axisymmetric Buckled States of Spherical Shells **63**, 305 (1977)
- KNIGHTLY, G.H., & D. SATHER, Buckled States of a Spherical Shell under Uniform External Pressure **72**, 315 (1980)
- KNIGHTLY, G.H., see CANNON, J.R., & E. DIBENEDETTO **73**, 79 (1980)
- KNIGHTLY, G.H., & D. SATHER, A Selection Principle for Bénard-Type Convection **88**, 163 (1985)
- KNIGHTLY, G.H., & D. SATHER, Stability of Cellular Convection **97**, 271 (1987)
- KNOPS, R.J., see HILLS, R.N. **51**, 54 (1973)
- KNOPS, R.J., H.A. LEVINE, & L.E. PAYNE, Non-existence, Instability, and Growth Theorems for Solutions of a Class of Abstract Nonlinear Equations to Nonlinear Elastodynamics **55**, 52 (1974)
- KNOPS, R.J., & L.E. PAYNE, Nonexistence of Global Solutions in Nonlinear Cauchy Elastodynamics **70**, 125 (1979)
- KNOPS, R.J., & L.E. PAYNE, A Saint-Venant Principle for Nonlinear Elasticity **81**, 1 (1983)
- KNOPS, R.J., & C.A. STUART, Quasiconvexity and Uniqueness of Equilibrium Solutions in Nonlinear Elasticity **86**, 233 (1984)
- KNOPS, R.J., see GALDI, G.P., & S. RIONERO **87**, 305 (1985)
- KNOPS, R.J., Existence of Weak Solutions to Linear Indefinite Systems of Differential Equations **98**, 179 (1987)
- KNOWLES, G., see COLEMAN, B.D., & R.J. DUFFIN **72**, 381 (1980)
- KNOWLES, G., see BALL, J.M. **92**, 193 (1986)
- KNOWLES, J.K., & E. STERNBERG, On the Failure of Ellipticity of the Equations for Finite Elastostatic Plane Strain **63**, 321 (1977)
- KNOWLES, J.K., see STERNBERG, E. **70**, 19 (1979)
- KNOWLES, J.K., Remarks on a Question of Ericksen concerning Elastostatic Fields of Saint-Venant Type **90**, 249 (1985)
- KOHN, R.V., New Integral Estimates for Deformations in Terms of their Nonlinear Strains **78**, 131 (1982)
- KONDRAIEV, V.A., & O.A. OLENIK, On the Behavior at Infinity of Solutions of Elliptic Systems with a Finite Energy Integral **99**, 75 (1987)
- KÖNIG, M., Bemerkung zum Maximumprinzip für den Gradienten einer elliptischen Differentialgleichung mit nichtkonstanten Koeffizienten **63**, 87 (1976)
- KOREVAAR, N.J., & J.L. LEWIS, Convex Solutions of Certain Elliptic Equations Have Constant Rank Hessians **97**, 19 (1987)
- KRANZER, H.C., see KEYFITZ, B.L. **72**, 219 (1980)

- KRATOCHVÍL, J., see ŠILHAVÝ, M. 65, 97 (1977)
KRATOCHVÍL, J., & M. ŠILHAVÝ, A Theory of Inelastic Behavior of Materials. Part II. Inelastic Materials 65, 131 (1977)
KRAWIETZ, A., A Comprehensive Constitutive Inequality in Finite Elastic Strain 58, 127 (1975)
KRISHNAPRASAD, P.S., & J.E. MARSDEN, Hamiltonian Structures and Stability for Rigid Bodies with Flexible Attachments 98, 71 (1987)
KÜHNAU, R., Die Spanne von Gebieten bei quasikonformen Abbildungen 65, 299 (1977)
KUIPER, H.J., Eigenvalue Problems for Noncontinuous Operators Associated with Quasilinear Elliptic Equations 53, 178 (1974)
KULSHRESTHA, P.K., Coefficient Problem for Alpha-Convex Univalent Functions 54, 205 (1974)
KUMMER, M., A Group Theoretical Approach to a Certain Class of Perturbations of the Kepler Problem 91, 55 (1985)
KUNERT, R., see GACKSTATTER, F. 65, 289 (1977)
KUSANO, T., see KITAMURA, Y. 75, 79 (1980)
KUSUNOKI, H., see TOKUOKA, T. 79, 175 (1982)

LAKSHMIKANTHAM, V., see CHANDRA, J., & S. LEELA 68, 179 (1978)
LALOY, M., & K. PEIFFER, On the Instability of Equilibrium when the Potential has a Non-Strict Local Minimum 78, 213 (1982)
LAMI DOZO, E., see GOSSEZ, J.-P. 89, 169 (1985)
LANCASTER, K.E., see ELCRAT, A.R. 94, 209 (1986)
LANDES, R., Quasilinear Hyperbolic Variational Inequalities 91, 267 (1986)
LANGE, H., Über ein Problem aus der Theorie der laminaren Grenzschichten 52, 49 (1973)
LAPIDUS, M.L., see FLECKINGER, J. 98, 329 (1987)
LAVINE, R., see FEINBERG, M. 82, 203 (1983)
LAX, P.D., & R.S. PHILLIPS, Scattering Theory for Domains with Non-Smooth Boundaries 68, 93 (1978)
LE BAIL, D., Analyticité Locale pour les Solutions de l'Equation d'Euler 95, 117 (1986)
LEELA, S., see CHANDRA, J., & V. LAKSHMIKANTHAM 68, 179 (1978)
LEEMAN, G.B. JR., Constrained Extremal Problems for Families of Stieltjes Integrals 52, 350 (1973)
LEITMAN, M.J., & V.J. MIZEL, On Fading Memory Spaces and Hereditary Integral Equations 55, 18 (1974)
LELONG-FERRAND, J., Construction de Modules de Continuité dans le Cas Limite de Soboleff et Applications à la Géometrie Différentielle 52, 297 (1973)
LENARD, A., States of Classical Statistical Mechanical System of Infinitely Many Particles. I 59, 219 (1975)
LENARD, A., States of Classical Statistica! Mechanical Systems of Infinitely Many Particles. II. Characterization of Correlation Measures 59, 241 (1975)
LESLEY, F.D., see GULLIVER, R. 52, 20 (1973)
LESLIE, F.M., On the Thermodynamics of Polar Fluids 70, 189 (1979)
LESLIE, F.M., see CURRIE, P.K. 87, 35 (1984)
LEVIN, J.J., A Bound on the Solutions of a Volterra Equation 52, 339 (1973)
LEVINE, H.A., Some Nonexistence and Instability Theorems for Solutions of Formally Parabolic Equations of the Form $Pu_t = -Au + \mathcal{F}(u)$ 51, 371 (1973)
LEVINE, H.A., see KNOPS, R.J., & L.E. PAYNE 55, 52 (1974)

- LEVINE, H.A., Growth of Solutions of Generalized Nonlinear Euler-Poisson-Darboux Equations **61**, 77 (1976)
- LEVINE, H.A., & H.F. WEINBERGER, Inequalities between Dirichlet and Neumann Eigenvalues **94**, 193 (1986)
- LEVINE, H.A., & M.H. PROTTER, The Breakdown of Solutions of Quasilinear First Order Systems of Partial Differential Equations **95**, 253 (1986)
- LEVINSON, M., see BHARATHA, S. **67**, 365 (1978)
- LEVINSON, M., see BHARATHA, S. **74**, 249 (1980)
- LEWERENZ, F., Eine Bemerkung zu den Marx-Schiffmanschen Minimalvektoren bei Polygonen **75**, 199 (1981)
- LEWIS, J.L., Capacitary Functions in Convex Rings **66**, 201 (1978)
- LEWIS, J.L., see KOREVAAR, N.J. **97**, 19 (1987)
- LEYLAND, P., see GEYMONAT, G. **100**, 53 (1987)
- LIANIS, G., Relativistic Thermodynamics of Viscoelastic Dielectrics **55**, 300 (1974)
- LIANIS, G., & D. WHICKER, Electromagnetic Phenomena in Rotating Media **57**, 325 (1975)
- LIEBERMAN, G.M., The Dirichlet Problem for Quasilinear Elliptic Equations with Hölder Continuous Boundary Values **79**, 305 (1982)
- LIEBERMAN, G.M., Intermediate Schauder Estimates for Oblique Derivative Problems **93**, 129 (1986)
- LINDSAY, K.A., & B. STRAUGHAN, Acceleration Waves and Second Sound in a Perfect Fluid **68**, 53 (1978)
- LINDSAY, K.A., & B. STRAUGHAN, A Thermodynamic Viscous Interface Theory and Associated Stability Problems **71**, 307 (1979)
- LIONS, P.-L., Résolution de problèmes elliptiques quasilinéaires **74**, 335 (1980)
- LIONS, P.-L., see BERESTYCKI, H. **82**, 313 (1983)
- LIONS, P.-L., see BERESTYCKI, H. **82**, 347 (1983)
- LIONS, P.-L., Sur les équations de Monge-Ampère **89**, 93 (1985)
- LITTMAN, W., Spectral Properties of the Laplacian in the Complement of a Deformed Cylinder **96**, 319 (1986)
- LIU, C.S., & Y.-H. WAN, A Simple Exact Solution of the Prandtl Boundary Layer Equations Containing a Point of Separation **89**, 177 (1985)
- LIU, I-S., On the Requirement that Material Symmetries shall Preserve Density **68**, 19 (1978)
- LIU, I-S., & I. MÜLLER, Extended Thermodynamics of Classical and Degenerate Ideal Gases **83**, 285 (1983)
- LIU, I-S., Wave Propagation in Fluids in Electromagnetic Fields **53**, 347 (1974)
- LIU, I-S., see WANG, C.-C. **74**, 277 (1980)
- LIU, I-S., Extended Thermodynamics of Fluids and Virial Equations of State **88**, 1 (1985)
- LIU, T.-P., Initial-Boundary Value Problems for Gas Dynamics **64**, 137 (1977)
- LIU, T.-P., Transonic Gas Flow in a Duct of Varying Area **80**, 1 (1982)
- LIVNE, A., & Z. SCHUSS, Singular Perturbations for Degenerate Elliptic Equations of Second Order **52**, 233 (1973)
- LLIBRE, J., see SIMÓ, C. **77**, 189 (1981)
- LOPER, D.E., see HALLAM, T.G. **60**, 355 (1976)
- LOVE, E.R., The Neumann Problem for a Function Harmonic in a Half Space **53**, 187 (1974)
- LUTTINGER, J.M., see FRIEDBERG, R. **61**, 35 (1976)
- LUTTINGER, J.M., & R. FRIEDBERG, A New Rearrangement Inequality for Multiple Integrals **61**, 45 (1976)

LUTTINGER, J.M., & R. FRIEDBERG, Some Functional Inequalities, with Application to Green's Function **61**, 187 (1976)

MA, C.-M., On Square-summability and Uniqueness Questions Concerning Non-stationary Stokes Flow in an Exterior Domain **71**, 99 (1979)

MACCAMY, R.C., see GURTIN, M.E. **54**, 281 (1974)

MACCAMY, R.C., A Model Riemann Problem for Volterra Equations **82**, 71 (1983)

MACCAMY, R.C., & E. STEPHAN, A Skin Effect Approximation for Eddy Current Problems **90**, 87 (1985)

MACSITHIGH, G., see FOSDICK, R.L. **84**, 31 (1983)

MACSITHIGH, G., see FOSDICK, R.L. **86**, 395 (1984)

MADDOCKS, J.H., Stability of Nonlinearly Elastic Rods **85**, 311 (1984)

MADDOCKS, J.H., Stability and Folds **99**, 301 (1987)

MALEK-MADANI, R., Energy Criteria for Finite Hyperelasticity **77**, 177 (1981)

MALLET-PARET, J., see CHOW, S.-N., & J.K. HALE **59**, 159 (1975)

MALLET-PARET, J., see CHOW, S.-N., & J.K. HALE **62**, 209 (1976)

MAN, C.-S., Dynamic Admissible States, Negative Absolute Temperature, and the Entropy Maximum Principle **90**, 263 (1985)

MAN, C.-S., Material Stability, the Gibbs Conjecture and the First Phase Rule for Substances **91**, 1 (1985)

MARCHESIN, D., see SHEARER, M., SCHAEFFER, D.G., & P.L. PAES-LEME **97**, 299 (1987)

MARCUS, M., & V.J. MIZEL, Nemitsky Operators on Sobolev Spaces **51**, 347 (1973)

MARCUS, M., Global Existence Theory for Models of Population Dynamics **82**, 191 (1983)

MARCUS, M., see COFFMAN, C.V. **96**, 167 (1986)

MAREMONTI, P., see GALDI, G.P. **91**, 375 (1986)

MAREMONTI, P., see GALDI, G.P. **94**, 253 (1986)

MARRIS, A.W., Hamel's Theorem **51**, 85 (1973)

MARRIS, A.W., Corrigendum: Hamel's Theorem **51**, 388 (1973)

MARRIS, A.W., Steady Isochoric Circulation-Preserving Motions whose Stream-Lines are Plane Geodesics on the Lamb Surfaces **54**, 238 (1974)

MARRIS, A.W., Addition and Correction: On Steady Three-Dimensional Motions **57**, 381 (1975)

MARRIS, A.W., Corrigenda: Hamel's Theorem **58**, 395 (1975)

MARRIS, A.W., On Complex-Lamellar Motions **59**, 131 (1975)

MARRIS, A.W., & M.G. ASWANI, On the General Impossibility of Controllable Axially-Symmetric Navier-Stokes Motions **63**, 107 (1977)

MARRIS, A.W., & W.F. AMES, Addendum: On Complex-Lamellar Motions. [Volume **59**, 131-148 (1975)] **64**, 371 (1977)

MARRIS, A.W., Universal Solutions in the Hydrostatics of Nematic Liquid Crystals **67**, 251 (1978)

MARRIS, A.W., Addition to "Universal Solutions in the Hydrostatics of Nematic Liquid Crystals" **69**, 323 (1979)

MARRIS, A.W., Steady Universal Motions of Rivlin-Ericksen Fluids **69**, 335 (1979)

MARRIS, A.W., see WANG, C.-C. **69**, 381 (1979)

MARRIS, A.W., The Impossibility of Steady Screw Motions of a Navier-Stokes Fluid **70**, 47 (1979)

MARRIS, A.W., Remarks on Plane Universal Navier-Stokes Motions **77**, 95 (1981)

MARRIS, A.W., Two New Theorems on Ericksen's Problem **79**, 131 (1982)

- MARRIS, A.W., & WAN-LEE YIN, On Circulation-Preserving Complex-Lamellar Motions with Steady Streamlines **82**, 109 (1983)
- MARRIS, A.W., On the Completeness of Trkalian Motions of Navier-Stokes Fluids **82**, 117 (1983)
- MARRIS, A.W., On Motions with Constant Speed and Streamline Parameter **90**, 1 (1985)
- MARRIS, A.W., Isochoric Circulation-Preserving Motions with Stream-Lines of a Potential Motion **90**, 213 (1985)
- MARSDEN, J.E., see HUGHES, T.J.R., & T. KATO, **63**, 273 (1977)
- MARSDEN, J.E., see HOLMES, P. **76**, 135 (1981)
- MARSDEN, J.E., see CHILLINGWORTH, D.R.J., & Y.H. WAN **80**, 295 (1982)
- MARSDEN, J.E., see CHILLINGWORTH, D.R.J., & Y.H. WAN **83**, 363 (1983)
- MARSDEN, J.E., see WAN, Y.H. **84**, 203 (1983)
- MARSDEN, J.E., see SIMO, J.C. **86**, 213 (1984)
- MARSDEN, J.E., see BALL, J.M. **86**, 251 (1984)
- MARSDEN, J.E., see KRISHNAPRASAD, P.S. **98**, 71 (1987)
- MARTENSEN, E., see GERDES, W. **58**, 11 (1975)
- MARTINS, L.C., see GURTIN, M.E. **60**, 305 (1976)
- MARTINS, L.C., On Cauchy's Theorem in Classical Physics: Some Counterexamples **60**, 325 (1976)
- MASSARI, U., Esistenza e Regolarità delle Ipersuperficie di Curvatura Media Assegnata in R^n **55**, 357 (1974)
- MATKOWSKY, B.J., see HABETLER, G.J. **57**, 166 (1975)
- MATOLCSI, T., On Material Frame Indifference **91**, 99 (1986)
- MAWHIN, J., J.R. JR. WARD, & M. WILLEM, Variational Methods and Semilinear Elliptic Equations **95**, 269 (1986)
- MAYNE, G., see BOULANGER, PH. **53**, 295 (1974)
- MAZZONE, S., Existence and Regularity of the Solution of Certain Nonlinear Variational Inequalities with an Obstacle **57**, 115 (1975)
- MCCARTHY, M.F., see CHEN, P.J., & T.R. O'LEARY **62**, 189 (1976)
- MCCARTHY, M.F., see CHEN, P.J. **62**, 353 (1976)
- MCCARTHY, M.F., & H.F. TIERSTEN, On Integral Forms of the Balance Laws for Deformable Semiconductors **68**, 27 (1978)
- MCCARTHY, M.F., & H.F. TIERSTEN, A Theory of Viscoelastic Composites Modeled as Interpenetrating Solid Continua with Memory **81**, 21 (1983)
- MCCARTHY, M.F., One-Dimensional Pulse Propagation in Deformable Dielectrics with Internal State Variables **86**, 353 (1984)
- MCKENNA, P.J., & W. WALTER, Nonlinear Oscillations in a Suspension Bridge **98**, 167 (1987)
- MCLEOD, J.B., & S.V. PARTER, On the Flow Between Two Counter-Rotating Infinite Plane Disks **54**, 301 (1974)
- MCLEOD, J.B., see EASTHAM, M.S.P., & W.D. EVANS **60**, 185 (1976)
- MCLEOD, J.B., & R.E.L. TURNER, Bifurcation for Non-Differentiable Operators with an Application to Elasticity **63**, 1 (1976)
- MCLEOD, J.B., see FIFE, P.C. **65**, 335 (1977)
- MCLEOD, J.B., see HASTINGS, S.P. **73**, 31 (1980)
- MCLEOD, J.B., see FIFE, P.C. **75**, 281 (1981)
- MCLEOD, J.B., see COCKER, A.D., & A. FRIEDMAN **93**, 15 (1986)
- MCLEOD, J.B., see FRIEDMAN, A. **96**, 55 (1986)
- MCLEOD, J.B., & K.R. RAJAGOPAL, On the Uniqueness of Flow of a Navier-Stokes Fluid Due to a Stretching Boundary **98**, 385 (1987)

- MCLEOD, J.B., see FRIEDMAN, A. **99**, 147 (1987)
- MCLEOD, K., Asymptotic Behaviour of Solutions of Semi-Linear Elliptic Equations in \mathbb{R}^n **98**, 295 (1987)
- MCLEOD, K., & J. SERRIN, Uniqueness of Positive Radial Solutions of $\Delta u + f(u) = 0$ in \mathbb{R}^n **99**, 115 (1987)
- MEIXNER, J., A Characterization of Vector-Valued Linear Relaxation Systems **54**, 148 (1974)
- MEIXNER, J., Coldness and Temperature **57**, 281 (1975)
- MENDÈS FRANCE, M., see DUPAIN, Y., & T. KAMAE **94**, 155 (1986)
- MENDÈS FRANCE, M., see DUPAIN, Y., & T. KAMAE **98**, 395 (1987)
- MENIKOFF, A., Carleman Estimates for Partial Differential Operators with Real Coefficients **54**, 118 (1974)
- MÉTIVIER, G., see ALINHAC, S. **92**, 287 (1986)
- MEYER, J., & J. SCHROTER, Proper and Normal Solutions of the Fokker-Planck Equation **76**, 193 (1981)
- MEYERS, N.G., Integral Inequalities of Poincaré and Wirtinger Type **68**, 113 (1978)
- MIGNOT, F., & J.P. PUEL, Inéquations d'évolution paraboliques avec convexes dépendant du temps. Applications aux inéquations quasi-variationnelles d'évolution **64**, 59 (1977)
- MIGNOT, F., & J.P. PUEL, Buckling of a Viscoelastic Rod **85**, 251 (1984)
- MIHĂILESCU-SULICIU, M., & I. SULICIU, Energy for Hypoelastic Constitutive Equations **71**, 327 (1979)
- MIKLAVČIČ, M., & M. WILLIAMS, Stability of Mean Flows over an Infinite Flat Plate **80**, 57 (1982)
- MIKLAVČIČ, M., Eigenvalues of the Orr-Sommerfeld Equation in an Unbounded Domain **83**, 221 (1983)
- MILLAR, R.F., The Analytic Continuation of Solutions of the Generalized Axially Symmetric Helmholtz Equation **81**, 349 (1983)
- MILLER, K., Nonunique Continuation for Uniformly Parabolic and Elliptic Equations in Self-Adjoint Divergence Form with Hölder Continuous Coefficients **54**, 105 (1974)
- MIYAKAWA, T., see GIGA, Y. **89**, 267 (1985)
- MIZEL, V.J., see MARCUS, M. **51**, 347 (1973)
- MIZEL, V.J., see LEITMAN, M.J. **55**, 18 (1974)
- MIZEL, V.J., see BALL, J.M. **90**, 325 (1985)
- MODICA, L., The Gradient Theory of Phase Transitions and the Minimal Interface Criterion **98**, 123 (1987)
- MOECKEL, G.P., Thermodynamics of an Interface **57**, 255 (1975)
- MONIN, A.S., see BARENBLATT, G.I. **70**, 307 (1979)
- MOON, H., & C. TRUESDELL, Interpretation of Adsorptive Inequalities through the Effects Pure Shear Stress Produces upon an Isotropic Elastic Solid **55**, 1 (1974)
- MORGAN, A.J.A., Inhomogeneous Materially Uniform Higher Order Gross Bodies **55**, 189 (1975)
- MORGAN, F., A Smooth Curve in R^3 Bounding a Continuum of Minimal Manifolds **75**, 193 (1981)
- MORGAN, F., Measures on Spaces of Surfaces **78**, 335 (1982)
- MORRIS, A.W., On Motions with Constant Speed and Streamline Parameters **90**, 1 (1985)
- MOSCO, U., see DAL MASO, G. **95**, 345 (1986)
- MÜLLER, I., see BENACH, R. **53**, 312 (1974)

- MÜLLER, I., & P. VILLAGGIO, A Model for an Elastic-Plastic Body **65**, 25 (1977)
MÜLLER, I., A Model for a Body With Shape-Memory **70**, 61 (1979)
MÜLLER, I., see LIU, I-S. **83**, 285 (1983)
MÜLLER, I., see GRECO, A. **85**, 279 (1984)
MÜLLER, S., Homogenization of Nonconvex Integral Functionals and Cellular Elastic Materials **99**, 189 (1987)
MUNCASTER, R.G., On Generating Exact Solutions of the Maxwell-Boltzmann Equation **70**, 79 (1979)
MUNCASTER, R.G., An Abstract Approach to Group Invariance, with Applications to Differential Equations **78**, 1 (1982)
MUNCASTER, R.G., Invariant Manifolds in Mechanics I: The General Construction of Coarse Theories from Fine Theories **84**, 353 (1984)
MUNCASTER, R.G., Invariant Manifolds in Mechanics II: Zero-dimensional Elastic Bodies with Directors **84**, 375 (1984)
MURAT, F., see FRANCFORTE, G.A. **94**, 307 (1986)
MURDOCH, A. IAN, see GURTIN, & M.E. **57**, 291 (1975)
MURDOCH, A.I., see GURTIN, M.E. **59**, 389 (1975)
MURDOCH, A.I., & H. COHEN, Symmetry Considerations for Material Surfaces **72**, 61 (1979)
MURDOCH, A.I., & H. COHEN, Symmetry Considerations for Material Surfaces: Addendum **76**, 393 (1981)
MURDOCH, A.I., On Material Frame-Indifference, Intrinsic Spin, and Certain Constitutive Relations Motivated by the Kinetic Theory of Gases **83**, 185 (1983)
MURDOCH, A.I., A Corpuscular Approach to Continuum Mechanics: Basic Considerations **88**, 291 (1985)
MUSCHIK, W., Empirical Foundation and Axiomatic Treatment of Non-Equilibrium Temperature **66**, 379 (1978)
- NAGHDI, P.M., & J.A. TRAPP, On the General Theory of Stability for Elastic Bodies **51**, 165 (1973)
NAGHDI, P.M., see CAULK, D.A. **69**, 1 (1979)
NAGHDI, P.M., see CASEY, J. **76**, 355 (1981)
NAGHDI, P.M., & L. VONGSARNPIGOON, Small Strain Accompanied by Moderate Rotation **80**, 263 (1982)
NAGHDI, P.M., & L. VONGSARNPIGOON, A Theory of Shells with Small Strain Accompanied by Moderate Rotation **83**, 245 (1983)
NAGHDI, P.M., & L. VONGSARNPIGOON, Corrigenda to "A Theory of Shells with Small Strain Accompanied by Moderate Rotation" **85**, 393 (1984)
NAGHDI, P.M., see GREEN, A.E. **86**, 39 (1984)
NAGHDI, P.M., see CASEY, J. **88**, 59 (1985)
NAGHDI, P.M., see GREEN, A.E. **90**, 389 (1985)
NAKAI, M., see GLASNER, M. **75**, 387 (1981)
NAKAO, M., Periodic Solutions of Linear and Nonlinear Wave Equations **62**, 87 (1976)
NAMBU, T., Feedback Stabilization for Distributed Parameter Systems of Parabolic Type, II **79**, 241 (1982)
NARAIN, A., see DIXIT, P.M., & D.D. JOSEPH **77**, 199 (1981)
NEČAS, J., see FUČÍK, S., SOUČEK, J., & V. SOUČEK **54**, 328 (1974)
NEČAS, J., see CIARLET, P.G. **87**, 319 (1985)
NEČAS, J., see CIARLET, P.G. **97**, 171 (1987)
NEHARI, Z., Green's Functions and Disconjugacy **62**, 53 (1976)

- NI, W.-M., see DING, W.-Y. **91**, 283 (1986)
- NICHOLSON, J.W., see SIMMONDS, J.G. **76**, 1 (1981)
- NICKEL, K.L., A Posteriori Error Bounds in Boundary Layer Theory **53**, 14 (1973)
- NIELD, D.A., see JOSEPH, D.D. **58**, 369 (1975)
- NIELSEN, H.B., see IOSS, G., & H. TRUE **68**, 227 (1978)
- NITSCHE, J.C.C., A New Uniqueness Theorem for Minimal Surfaces **52**, 319 (1973)
- NITSCHE, J.C.C., see HILDEBRANDT, S. **79**, 189 (1982)
- NITSCHE, J.C.C., Stationary Partitioning of Convex Bodies **89**, 1 (1985)
- NITSCHE, J.C.C., Corrigendum to Stationary Partitioning of Convex Bodies **95**, 389 (1986)
- NOLL, W., Lectures on the Foundations of Continuum Mechanics and Thermodynamics **52**, 62 (1973)
- NOLL, W., & J.J. SCHÄFFER, Orders, Gauge, and Distance in Faceless Linear Cones; with Examples Relevant to Continuum Mechanics and Relativity **66**, 345 (1978)
- NOLL, W., & J.J. SCHÄFFER, Corrigenda to the paper "Orders, Gauge, and Distance in Faceless Linear Cones; with Examples Relevant to Continuum Mechanics and Relativity". [Volume **66**, 345–377 (1977)] **68**, 383 (1978)
- NOLL, WALTER, Published Works of **93**, 385 (1986)
- NORBURY, J., see BUDDEN, P. **78**, 361 (1982)
- NUNZIATO, J.W., & E.K. WALSH, Acceleration Waves and Mild Discontinuities in a Non-Simple Mixture of Chemically Reacting Elastic Materials **58**, 115 (1975)
- NUNZIATO, J.W., & E.K. WALSH, On the Influence of Void Compaction and Material Non-uniformity on the Propagation of One-dimensional Acceleration Waves in Granular Materials **64**, 299 (1977)
- NUNZIATO, J.W., & E.K. WALSH, Addendum: On the Influence of Void Compaction and Material Non-Uniformity on the Propagation of One-Dimensional Acceleration Waves in Granular Materials **67**, 395 (1978)
- NUNZIATO, J.W., & C. COWIN, A Nonlinear Theory of Elastic Materials with Voids **72**, 175 (1979)
- NUNZIATO, J.W., & E.K. WALSH, On Ideal Multiphase Mixtures with Chemical Reactions and Diffusion **73**, 285 (1980)
- NUSSBAUM, R.D., Asymptotic Analysis of Functional Differential Equations and Solutions of Long Period **81**, 373 (1983)
- O'LEARY, T.R., see CHEN, P.J., & M.F. McCARTHY **62**, 189 (1976)
- OLEINIK, O.A., & G.A. YOSIFIAN, On the Asymptotic Behaviour at Infinity of Solutions in Linear Elasticity **78**, 29 (1982)
- OLEINIK, O.A., see KONDRAIEV, V.A. **99**, 75 (1987)
- OLMSTEAD, W.E., see HORGAN, C.O. **71**, 221 (1979)
- OLSEN, E.T., & B. BERNSTEIN, A Class of Hypo-Elastic Non-Elastic Materials and their Thermodynamics **86**, 291 (1984)
- OLVER, P.J., Conservation Laws in Elasticity I. General Results **85**, 111 (1984)
- OLVER, P.J., Conservation Laws in Elasticity. II. Linear Homogeneous Isotropic Elastostatics **85**, 131 (1984)
- OSBORN, J.E., see ANTMAN, S.S. **69**, 231 (1979)
- OSSERMAN, R., & M. SCHIFFER, Doubly-Connected Minimal Surfaces **58**, 285 (1975)
- OSTER, G.F., & A.S. PERELSON, Chemical Reaction Dynamics. Part I: Geometrical Structure **55**, 230 (1974)
- OSTER, G.F., see PERELSON, A.S. **57**, 31 (1975)
- OSWALD, L., see BREZIS, H. **99**, 249 (1987)
- OTTERBEIN, S., Stabilisierung des n -Pendels und der Indische Seiltrick **78**, 381 (1982)

- OTTINO, J.M., see CHELLA, R. **90**, 15 (1985)
OWEN, D.R., see COLEMAN, B.D. **54**, 1 (1974)
OWEN, D.R., see COLEMAN, B.D. **55**, 275 (1974)
OWEN, D.R., see COLEMAN, B.D. **59**, 25 (1975)
OWEN, D.R., see COLEMAN, B.D. **62**, 391 (1976)
OWEN, D.R., see COLEMAN, B.D. **66**, 173 (1978)
OWEN, D.R., see COLEMAN, B.D. **70**, 339 (1979)
OWEN, D.R., see BUHITE, J. **71**, 357 (1979)
OWEN, D.R., see COLEMAN, B.D., & J. SERRIN **77**, 103 (1981)
OWEN, D.R., The Second Law of Thermodynamics for Semi-Systems with Few Approximate Cycles **80**, 39 (1982)
OWEN, D.R., see COLEMAN, B.D., & M. FABRIZIO **80**, 135 (1982)
OWEN, D.R., see COLEMAN, B.D., & W.J. HRUSA **94**, 267 (1986)
OWEN, D.R., Weakly Decaying Energy Separation and Uniqueness of Motions of an Elastic-Plastic Oscillator with Work-Hardening **98**, 95 (1987)
OWEN, N., Existence and Stability of Necking Deformations for Nonlinearly Elastic Rods **98**, 357 (1987)
- PACELLA, F., Central Configurations of the *N*-body Problem via Equivariant Morse Theory **97**, 59 (1987)
PADULA, M., Existence and Uniqueness for Viscous Steady Compressible Motions **97**, 89 (1987)
PAES-LEME, P.L., see SHEARER, M., SCHAEFFER, D.G., & D. MARCHESEN **97**, 299 (1987)
PALMER, J., Complex Structures and External Fields **75**, 31 (1980)
PARKER, D.F., & B.R. SEYMOUR, Finite Amplitude One-dimensional Pulses in an Inhomogeneous Granular Material **72**, 265 (1980)
PARTER, S.V., see MCLEOD, J.B. **54**, 301 (1974)
PARTER, S.V., & K.R. RAJAGOPAL, Swirling Flow between Rotating Plates **86**, 305 (1984)
PASSMAN, S.L., & R.C. BATRA, A Thermomechanical Theory for a Porous Anisotropic Elastic Solid with Inclusions **87**, 11 (1984)
PATIÑO, J., see FOSDICK, R.L. **93**, 203 (1986)
PAYNE, L.E., see KNOPS, R.J., & H.A. LEVINE **55**, 52 (1974)
PAYNE, L.E., see HERSCHE, J., & M.M. SCHIFFER **57**, 99 (1975)
PAYNE, L.E., see KNOPS, R.J. **70**, 125 (1979)
PAYNE, L.E., see KNOPS, R.J. **81**, 1 (1983)
PAYNE, L.E., see HORGAN, C.O. **82**, 165 (1983)
PAYNE, L.E., see HORGAN, C.O. **86**, 279 (1984)
PAZY, A., & P.H. RABINOWITZ, On a Branching Process in Neutron Transport Theory **51**, 153 (1973)
PECELLI, G., see CHURCHILL, R.C., & D.L. ROD **73**, 313 (1980)
PEGO, R.L., Nonexistence of a Shock Layer in Gas Dynamics with a Nonconvex Equation of State **94**, 155 (1986)
PEGO, R.L., Phase Transitions in One-Dimensional Nonlinear Viscoelasticity: Admissibility and Stability **97**, 353 (1987)
PEIFFER, K., see LALOY, M. **78**, 213 (1982)
PELETIER, L.A., see ARONSON, D.G. **54**, 175 (1974)
PELETIER, L.A., see ATKINSON, F.V. **54**, 373 (1974)
PELETIER, L.A., A Necessary and Sufficient Condition for the Existence of an Interface in Flows Through Porous Media **56**, 183 (1974)

- PELETIER, L.A., see GILDING, B.H. **61**, 127 (1976)
- PELETIER, L.A., see FIFE, P.C. **64**, 93 (1977)
- PELETIER, L.A., see BALL, J.M. **65**, 193 (1977)
- PELETIER, L.A., see VAN DUYN, C.J. **65**, 363 (1977)
- PELETIER, L.A., see VAN DUYN, C.J. **78**, 173 (1982)
- PELETIER, L.A., & J. SERRIN, Uniqueness of Positive Solutions of Semi-linear Equations in \mathbb{R}^n **81**, 181 (1983)
- PELETIER, L.A., see BERTSCH, M. **91**, 207 (1986)
- PELETIER, L.A., see ATKINSON, F.V. **93**, 103 (1986)
- PELETIER, L.A., D. TERMAN, & F.B. WEISSLER, On the Equation $\Delta u + \frac{1}{2}x \cdot \nabla u + f(u) = 0$ **94**, 83 (1986)
- PELETIER, L.A., see BREZIS, H., & D. TERMAN **95**, 185 (1986)
- PELETIER, L.A., see ATKINSON, F.V. **96**, 147 (1986)
- PENEL, P., see BARDOS, C., FRISCH, U., & P.L. SULEM **71**, 237 (1979)
- PERELSON, A.S., see OSTER, G.F. **55**, 230 (1974)
- PERELSON, A.S., & G.F. OSTER, Chemical Reaction Dynamics. Part II: Reaction Networks **57**, 31 (1975)
- PERKO, L.M., A Class of Superquadratic Boundary Value Problems of Capillary Type **74**, 355 (1980)
- PETROSKI, H.J., On the Use of Incomplete Constitutive Information in Thermoelasticity **53**, 229 (1974)
- PETROSKI, H.J., Thermomechanical States with Controllable Invariant Relations **56**, 294 (1974)
- PHILLIPS, R.S., see LAX, P.D. **68**, 93 (1978)
- PIERCE, J.F., & A.P. WHITMAN, Topological Properties of the Manifolds of Configurations for Several Simple Deformable Bodies **74**, 101 (1980)
- PIMBLEY, G.H. JR., Periodic Solutions of Third Order Predator-Prey Equations Simulating an Immune Response **55**, 93 (1974)
- PIMBLEY, G.H. JR., Bifurcation Behavior of Periodic Solutions for an Immune Response Problem **64**, 169 (1977)
- PIPKIN, A.C., Equilibrium of Tchebychev Nets **85**, 81 (1984)
- PIPKIN, A.C., Continuously Distributed Wrinkles in Fabrics **95**, 93 (1986)
- PISTERS, M., Ein Eindeutigkeitssatz für die reguläre dritte Randwertaufgabe bei elliptischen Differentialgleichungen zweiter Ordnung und untere Schranken für den kleinsten von Null verschiedenen Eigenwert **56**, 158 (1974)
- PITTERI, M., Classical Thermodynamics of Homogeneous Systems based upon Carnot's General Axiom **80**, 333 (1982)
- PITTERI, M., On the Kinematics of Mechanical Twinning in Crystals **88**, 25 (1985)
- PITTERI, M., Continuum Equations of Balance in Classical Statistical Mechanics **94**, 291 (1986)
- PITTERI, M., Correction of an error in my paper "Continuum Equations of Balance in Classical Statistical Mechanics", [Volume **94**, 291-305 (1986)] **100**, 315 (1988)
- PLANT, A.T., Four Inequalities for Monotone Gradient Vector Fields **82**, 377 (1983)
- PODIO GUIDUGLI, P., see GURTIN, M.E. **51**, 192 (1973)
- PODIO GUIDUGLI, P., see CAPRIZ, G. **57**, 1 (1975)
- PODIO GUIDUGLI, P., see CAPRIZ, G. **70**, 261 (1979)
- PODIO-GUIDUGLI, P., see CAPRIZ, G. **75**, 269 (1981)
- PODIO-GUIDUGLI, P., St. Venant Formulae for Generalized St. Venant Problems **81**, 13 (1983)
- PODIO-GUIDUGLI, P., G. VERGARA CAFFARELLI, & E.G. VIRGA, Cavitation and Phase Transition of Hyperelastic Fluids **92**, 121 (1986)

- POGU, M., see CIAVALDINI, J.F., & G. TOURNEMINE **93**, 1 (1986)
- POORE, A.B., A Model Equation Arising from Chemical Reactor Theory **52**, 358 (1973)
- POORE, A.B., On the Theory and Application of the Hopf-Friedrichs-Bifurcation Theory **60**, 371 (1976)
- POP, J.J., & C.-C. WANG, Acceleration Waves in Isotropic Elastic Membranes **77**, 47 (1981)
- POREDA, S.J., Groups of Analytic Kernels **60**, 301 (1976)
- POSTON, T., see BUZANO, E., & G. GEYMONAT **89**, 307 (1985)
- POTIER-FERRY, M., The Linearization Principle for the Stability of Solutions of Quasilinear Parabolic Equations, I. **77**, 301 (1981)
- POTIER-FERRY, M., On the Mathematical Foundations of Elastic Stability Theory. I. **78**, 55 (1982)
- POTTER, R.M., & T.W. TING, The Problem of Forced Fittings. Part I. The Loading Process **58**, 77 (1975)
- POURCIAU, B.H., Univalence and Degree for Lipschitz Continuous Maps **81**, 289 (1983)
- PRASAD, M., see SHANKAR, R. **75**, 169 (1981)
- PRASAD, M., see SHANKAR, R. **78**, 397 (1982)
- PROTTER, M.H., see HILE, G.N. **66**, 267 (1978)
- PROTTER, M.H., see LEVINE, H.A. **95**, 253 (1986)
- PUCCI, P., see CESARI, L. **89**, 187 (1985)
- PUCCI, P., A Semilinear Elliptic Problem which is not Selfadjoint **92**, 265 (1986)
- PUEL, J.P., see MIGNOT, F. **64**, 59 (1977)
- PUEL, J.P., see MIGNOT, F. **85**, 251 (1984)
- QUINLAN, M.H., Materials with Variable Bonding **67**, 165 (1978)
- RABIER, P., A General Study of Nonlinear Problems with Three Solutions in Hilbert Spaces **94**, 123 (1986)
- RABINOWITZ, P.H., see PAZY, A. **51**, 153 (1973)
- RABINOWITZ, P.H., see CRANDALL, M.G. **52**, 161 (1973)
- RABINOWITZ, P.H., see CRANDALL, M.G. **58**, 207 (1975)
- RABINOWITZ, P.H., see CRANDALL, M.G. **67**, 53 (1977)
- RABINOWITZ, P.H., A Note on a Theorem of R. Duffin **93**, 91 (1986)
- RAJAGOPAL, K.R., see FOSDICK, R.L. **70**, 145 (1979)
- RAJAGOPAL, K.R., On the Flow of a Simple Fluid in an Orthogonal Rheometer **79**, 39 (1982)
- RAJAGOPAL, K.R., see FOSDICK, R.L. **81**, 317 (1983)
- RAJAGOPAL, K.R., A.S. GUPTA, & B.S. DANDAPAT, On the Nonlinear Stability of Flow of a Conducting Fluid Past a Porous Flat Plate in a Transverse Magnetic Field **83**, 91 (1983)
- RAJAGOPAL, K.R., see PARTER, S.V. **86**, 305 (1984)
- RAJAGOPAL, K.R., see MCLEOD, J.B. **98**, 385 (1987)
- RAND, D., Dynamics and Symmetry. Predictions for Modulated Waves in Rotating Fluids **79**, 1 (1982)
- RANKIN, R.L., see BOWEN, R.M. **51**, 261 (1973)
- RAUCH, J., Qualitative Behavior of Dissipative Wave Equations on Bounded Domains **62**, 77 (1976)
- RAUCH, J., see BAMBERGER, A., & M. TAYLOR **79**, 267 (1982)
- REDDY, B.D., see BLEACH, G.P. **98**, 31 (1987)

- REDHEFFER, R., Gewöhnliche Differentialgleichungen mit quasimonotonen Funktionen in normierten linearen Räumen **52**, 121 (1973)
- REDHEFFER, R., see HESTENES, M. **56**, 1 (1974)
- REDHEFFER, R., see HESTENES, M. **56**, 15 (1974)
- REDHEFFER, R., & W. WALTER, Invariant Sets for Systems of Partial Differential Equations I. Parabolic Equations **67**, 41 (1977)
- REDHEFFER, R., & W. WALTER, Invariant Sets for Systems of Partial Differential Equations. II. First-Order and Elliptic Equations **73**, 19 (1980)
- REDHEFFER, R., A Class of Quasilinear Differential Inequalities whose Solutions are Ultimately Constant **99**, 165 (1987)
- REEDER, J., & M. SHINBROT, On Wilton Ripples, II: Rigorous Results **77**, 321 (1981)
- REICH, E., Quasiconformal Mappings with Prescribed Boundary Values and a Dilatation Bound **68**, 99 (1978)
- REILLY, R.C., Geometric Applications of the Solvability of Neumann Problems on a Riemannian Manifold **75**, 23 (1980)
- REINICKE, K.M., & C.-C. WANG, On the Flow Rules of Anelastic Bodies **58**, 103 (1975)
- REINICKE, K.M., Acceleration Waves in Anelastic Material Bodies **62**, 165 (1976)
- REISS, E.L., see AHLUWALIA, D.S., & S.E. STONE **54**, 340 (1974)
- RENARDY, M., Bifurcation from Rotating Waves **79**, 49 (1982)
- RENARDY, M., Local Existence Theorems for the First and Second Initial-Boundary Value Problems for a Weakly Non-Newtonian Fluid **83**, 229 (1983)
- RENARDY, M., On the Domain Space for Constitutive Laws in Linear Viscoelasticity **85**, 21 (1984)
- RENARDY, M., see JOSEPH, D.D., & J.-C. SAUT **87**, 213 (1985)
- RENARDY, M., A Local Existence and Uniqueness Theorem for a K-BKZ-Fluid **88**, 83 (1985)
- REYNOLDS, D.W., see GURTIN, M.E., & S.J. SPECTOR **72**, 303 (1980)
- RICHMAN, M.W., see JENKINS, J.T. **87**, 355 (1985)
- RIONERO, S., & G.P. GALDI, On the Uniqueness of Viscous Fluid Motions **62**, 295 (1976)
- RIONERO, S., & G.P. GALDI, The Weight Function Approach to Uniqueness of Viscous Flows in Unbounded Domains **69**, 37 (1979)
- RIONERO, S., see GALDI, G.P. **81**, 333 (1983)
- RIONERO, S., see GALDI, G.P., & R.J. KNOPS **87**, 305 (1985)
- RIVIERE, N.M., see CAFFARELLI, L.A. **69**, 31 (1979)
- RIVLIN, R.S., see BALLAL, B.Y. **62**, 237 (1976)
- ROBERTS, P.H., see HILLS, R.N. **66**, 43 (1978)
- ROD, D.L., see CHURCHILL, R.C., & G. PECELLI **73**, 313 (1980)
- RODRIGUEZ, J.A., Bifurcation to Homoclinic Connections of the Focus-Saddle Type **93**, 81 (1986)
- ROGERS, R.C., & S.S. ANTMAN, Steady-State Problems of Nonlinear Electro-Magneto-Thermo-Elasticity **95**, 279 (1986)
- ROMANO, A., A Macroscopic Non-Linear Theory of Magnetothermoelastic Continua **65**, 1 (1977)
- ROMANO, A., Proof that the Formulations of the Electrodynamics of Moving Bodies are Equivalent **68**, 283 (1978)
- ROMANO, A., see IANNECE, D., & G. STARITA **75**, 373 (1981)
- ROSEMAN, J.J., On a Bound for Deformations in Terms of Strains in an Elastic Cylinder **60**, 17 (1975)

- ROSEMAN, J.J., see BREUER, S. **63**, 191 (1977)
- ROSEMAN, J.J., Corrigendum: On a Bound for Deformations in Terms of Strains in an Elastic Cylinder. [Volume **60**, 17-28 (1975)] **64**, 381 (1977)
- ROSEMAN, J.J., see BREUER, S. **66**, 19 (1978)
- ROSEMAN, J.J., see BREUER, S. **68**, 333 (1978)
- ROSEMAN, J.J., see BREUER, S. **80**, 19 (1982)
- ROSEMAN, J.J., see BREUER, S. **94**, 363 (1986)
- ROSENBLAT, S., Global Aspects of Bifurcation and Stability **66**, 119 (1978)
- ROSSO, F., Variational Methods for Pointwise Stability of Viscous Fluid Motions **86**, 181 (1984)
- ROYBURD, V., & M. SLEMROD, Positively Invariant Regions for a Problem in Phase Transitions **93**, 61 (1986)
- RUELLE, D., Bifurcations in the Presence of a Symmetry Group **51**, 136 (1973)
- RUND, H., Clebsch Potentials and Variational Principles in the Theory of Dynamical Systems **65**, 305 (1977)
- RUND, H., Clebsch Representations and Relativistic Dynamical Systems **71**, 199 (1979)
- SALVADORI, A., see CESARI, L., & P. BRANDI **98**, 307 (1987)
- SAMPAIO, R., An Axiomatic Theory of Mixtures with Diffusion **62**, 99 (1976)
- SAMPSON, J.H., Foliations from Quadratic and Hermitian Differential Forms **70**, 91 (1979)
- SANCHEZ-PALENCIA, E., see GEYMONAT, G. **75**, 257 (1981)
- SANI, R.L., see GEORGAKIS, C. **52**, 266 (1973)
- SARASON, L., & J.A. SMOller, Geometrical Optics and the Corner Problem **56**, 34 (1974)
- SATHER, D., see GUSTAFSON, K. **52**, 10 (1973)
- SATHER, D., see KNIGHTLY, G.H. **54**, 356 (1974)
- SATHER, D., Bifurcation and Stability for a Class of Shells **63**, 295 (1977)
- SATHER, D., see KNIGHTLY, G.H. **63**, 305 (1977)
- SATHER, D., see KNIGHTLY, G.H. **72**, 315 (1980)
- SATHER, D., see KNIGHTLY, G.H. **88**, 163 (1985)
- SATHER, D., see KNIGHTLY, G.H. **97**, 271 (1987)
- SATTINGER, D.H., Selection Mechanisms for Pattern Formation **66**, 31 (1978)
- SAUT, J.C., & D.D. JOSEPH, Fading Memory **81**, 53 (1983)
- SAUT, J.C., see JOSEPH, D.D., & M. RENARDY, **87**, 213 (1985)
- SAXTON, R.A., see EBIN, D.G. **94**, 15 (1986)
- SCHAEFFER, D.G., & M.A. GOLUBITSKY, Bifurcation Analysis near a Double Eigenvalue of a Model Chemical Reaction **75**, 315 (1981)
- SCHAEFFER, P.W., & R.P. SPERB, Maximum Principles for Some Functionals Associated With the Solution of Elliptic Boundary Value Problems **61**, 65 (1976)
- SCHAEFFER, D.G., An Example of Generic Regularity for a Non-Linear Elliptic Equation **57**, 134 (1975)
- SCHAEFFER, D.G., see SHEARER, M., D. MARCHESSIN, & P.L. PAES-LEME **97**, 299 (1987)
- SCHÄFFER, J.J., see NOLL, W. **66**, 345 (1978)
- SCHÄFFER, J.J., Orders, Gauge, and Distance in Faceless Linear Cones. II: Gauge-preserving Bijections are Cone-isomorphisms **67**, 305 (1978)
- SCHÄFFER, J.J., see NOLL, W. **68**, 383 (1978)
- SCHENBERG, S., Calibration of Digital-Analog Converters **52**, 261 (1973)
- SCHEURLE, J., Bifurcation of Quasi-Periodic Solutions from Equilibrium Points of Reversible Dynamical Systems **97**, 103 (1987)

- SCHIFFER, M., see OSSERMAN, R. **58**, 285 (1975)
- SCHIFFER, M., & G. SCHOBER, Coefficient Problems and Generalized Grunsky Inequalities for Schlicht Functions with Quasiconformal Extensions **60**, 205 (1976)
- SCHIFFER, M.M., see HERSCH, J., & L.E. PAYNE **57**, 99 (1975)
- SCHMIDT, D., Zur Differentialgleichung der Ellipsoidfunktionen **53**, 40 (1973)
- SCHMIDT, G., see GUILLOT, J.C. **55**, 193 (1974)
- SCHMINCKE, U.-W., The Lower Spectrum of Schrödinger Operators **75**, 147 (1981)
- SCHMITT, H., The Domain of Convergence for the Iterative Solution of Nonlinear Second Order Boundary Value Problems **93**, 301 (1986)
- SCHOBER, G., see SCHIFFER, M. **60**, 205 (1976)
- SCHONBEK, M.E., L^2 Decay for Weak Solutions of the Navier-Stokes Equations **88**, 209 (1985)
- SCHRÖTER, J., The Complete Chapman-Enskog Procedure for the Fokker-Planck Equation **66**, 183 (1978)
- SCHRÖTER, J., see MEYER, J. **76**, 193 (1981)
- SCHULZ, F., A Priori Estimates for Solutions of Monge-Ampère Equations **89**, 123 (1985)
- SCHUMACHER, K., Existence and Continuous Dependence for Functional-Differential Equations with Unbounded Delay **67**, 315 (1978)
- SCHUSS, Z., see LIVNE, A. **52**, 233 (1973)
- SCOTT, N., Acceleration Waves in Constrained Elastic Materials **58**, 57 (1975)
- SECCHI, P., see BEIRÃO DA VEIGA, H. **98**, 65 (1987)
- SELL, G.R., Bifurcation of Higher Dimensional Tori **69**, 199 (1979)
- SÉNÉOR, R., see ECKMANN, J.-P. **61**, 153 (1976)
- SERO-GUILLAUME, O., see BRANCHER, J.P. **90**, 57 (1985)
- SERRIN, J., see FOSDICK, R.L. **59**, 97 (1975)
- SERRIN, J., Liouville Theorems and Gradient Bounds for Quasilinear Elliptic Systems **66**, 295 (1978)
- SERRIN, J., Conceptual Analysis of the Classical Second Laws of Thermodynamics **70**, 355 (1979)
- SERRIN, J., see COLEMAN, B.D., & D.R. OWEN **77**, 103 (1981)
- SERRIN, J., see PELETIER, L.A. **81**, 181 (1983)
- SERRIN, J., see DUNN, J.E. **88**, 95 (1985)
- SERRIN, J., see MCLEOD, K. **99**, 115 (1987)
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- SHAHINPOOR, M., Plane Waves and Stability in Thin Elastic Circular Cylindrical Shells **54**, 267 (1974)
- SHANKAR, R., & M. PRASAD, On the Non-Uniform Propagation of Weak Discontinuities in Magnetogasdynamics **75**, 169 (1981)
- SHANKAR, R., & M. PRASAD, Corrigendum to "On the Non-Uniform Propagation of Weak Discontinuities in Magnetogasdynamics" **78**, 397 (1982)
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- SHAPIRO, V.L., Isolated Singularities in Fluid Flow and Elasticity **58**, 95 (1975)
- SHARMA, V.D., & R. SHYAM, A Note Concerning the Corrigendum to "On the Non-Uniform Propagation of Weak Discontinuities in Magnetogasdynamics" [Volume **78**, 397-398 (1982)] **86**, 211 (1984)
- SHEARER, M., Nonuniqueness of Admissible Solutions of Riemann Initial Value Problems for a System of Conservation Laws of Mixed Type **93**, 45 (1986)
- SHEARER, M., D.G. SCHAEFFER, MARCHEGIN, D., & P.L. PAES-LEME, Solution of the Riemann Problem for a Prototype 2×2 System of Non-strictly Hyperbolic Conservation Laws **97**, 299 (1987)

- SHIH, K.-G., & S.S. ANTMAN, Qualitative Properties of Large Buckled States of Spherical Shells **93**, 357 (1986)
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- SIMMONDS, J.G., & J.W. NICHOLSON, On Sanders' Energy-Release Rate Integral and Conservation Laws in Finite Elastostatics **76**, 1 (1981)
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- SIMPSON, H.C., & S.J. SPECTOR, On Copositive Matrices and Strong Ellipticity for Isotropic Elastic Materials **84**, 55 (1983)
- SIMPSON, H.C., & S.J. SPECTOR, On the Positivity of the Second Variation in Finite Elasticity **98**, 1 (1987)
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- WAN, Y.H., & J.E. MARSDEN, Symmetry and Bifurcation in Three-Dimensional Elasticity. Part III: Stressed Reference Configurations **84**, 203 (1983)
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